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UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics

LABOR REQUIREMENTS FOR CROPS AND LIVESTOCK

Ру

M. R. Cooper

W. C. Holley,

H. W. Hawthorne, and

R. S. Washburn

RECEIVED ★ JUN 9 1943 ★ U. S. Been to of Agrisulture

Washington, D. C. May 1943



Procedure and Acknowledgments

This report contains information on the average number of man hours used in an average season to produce an acre of each of some 90 crops; number of hours used in caring for various classes of livestock for a year; number of hours used in producing livestock products, such as a hundredweight of pork, beef, milk, and a hundred dozen of eggs; and data related to the labor requirements, such as average yields of crops, number of livestock on farms, production of livestock, and certain factors for converting livestock labor requirements from a live weight to a dressed weight basis, and for computing the number of man hours needed to harvest crops of various yields.

The labor requirements shown are State averages, arrived at by taking into consideration many variations from the average. They are not the result of any special survey, but were "built up" from available data collected by Federal and State agencies. The requirements were previously released in preliminary form for review purposes only. A few suggested changes have been incorporated in the estimates. Additional suggestions that will improve the data will be most welcome.

Included in the labor for crop production are the hours for hauling manure, plowing and fitting the land, planting and cultivating, spraying, dusting, pruning, etc., and for harvesting and hauling the crop to storage, local market, or processing plant. The hours for livestock care and production include direct labor only for such operations as feeding, caring for, and disposing of the animals and their products. Labor for growing feed and repairing buildings, fences, and equipment, is not included.

Several members of the staff helped to bring together the information on which these estimates are based.

By M. R. Cooper, W. C. Holley, H. W. Hawthorne, and R. S. Washburn

——————————————————————————————————————	001	A TETS T	ENTS	
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+ N	Page	•	• ••	Page
Grain crops	B		Tree nut crops	
Barley	1	:	Almonds	59
Buckwheat	3		Filberts (Hazelnuts)	59
Corn	4		Pecans (Improved)	60
Grain sorghums	8	:	Walnuts (Persian)	59
Oats	9	:		
Rice	13	:	Berry creps	
Rye	14		Blackberries	61
Wheat	16	:	Blueberries (tame and wild)	63
•		. :	Boysenberries	65
Hay and hay seed crops		:	Cranberries	67
Alfalfa hay and seed	20	:	Currants	68
All hay (baling operation		:	Dewberries	61
only)	22	:	Gooseberries	70
Alsike clover seed	25	:	Loganberries	72
Clover and timothy hay	ı		Raspberries	73
and seed	26	:	Strawberries	75
Cow pea hay and seed	28	:	Youngberries	77
Grain hay	29	:	*	
Lespedeza	31	:	Vegetable and other truck crops	the same
Soybean hay and beans	32	:	Artichokes (Globe)	78
Sweetclover hay and seed	34	:	Asparagus	79
Sweet sorghum hay	3 5	:	Beans, 'lima'	80
Velvet bean hay and beans	36	:	Reans, snap	8I
Wild hay	37	:	Beets, table	83
m 1 1 2 2 11		:	Brussel sprouts	78
Tree and vine fruit creps		:	Cabbage	84 87
Apples	39	:	Cantaloups	88
Apricots	41	:	Carrots	90
Avocacios	42	:	Cauliflower	90
Cherries	43	•	Celery	92
Date:	45	•		95
Figs	46		Eggplant	95 95
Grapes	47 48	:	Lettuce	96
Lemons	50	•	Onions	97
Limes	51	:	Peas, green	99
Oranges	51	:	Peppers, green. pimiento,	22
Peaches	52	:	chillian control of	101
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Soybeans	32		Horses and mules	
		,	Sheep and lambs - meat and wool	
- , ,			Turkeys	

Manpower is a paramount need today. It must be distributed among urgent industries. These State averages of labor requirements of various agricultural commodities in an average season are made available for those who can use them in figuring the needs for labor, and in planning for its distribution.

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BARLEY: Labor requirements per acre 1/

	: :	Man hours per a	ıcre	: : 1929–38
State	:	: :		average
,	: Total	: Preharvest :	Harvest	: yield
	:	:		: per acre
	: Hours	Hours	Hours	Bushels
	: 7			
Maine	: 26.0-	12.5	13.5	29.3
Vermont	: 26.0°	12.5	13.5	27.0
New England	: 26.0	12.5	13.5	28.0
•	:			
New York	: 19.0	8.9	10.1	24.0
New Jersey	: 17.0	7.1	9.9	27.2
Pennsylvania	: 18.7	8.5	10.2	26.0
Middle Atlantic	: 18.8	8.7	10.1	25.0
	:			
Ohio	: 15.2	6.3	8.9	23.2
Indiana	: 14.7	6.0	8.0	20.2
Illinois	: 11.8	5.0	6.8	24.8
Michigan	: 15.9	7.2	8.7	22.4
Wisconsin	: 16.0	7.2	8.8	27.2
East North Central	: 15.3	-6.8	8.5	25.7
	:	***		
Minnesota	: 10.5	4.2	6.3	21,6
Iowa	: 11.1	4.6	6.5	24.3
Missouri	: 15.0	7.7	7.3	17.5
North Dakota	: 7.5	3.5	4.0	14.0
South Dakota	: 7.5	3.5	4.0	15.3
Nebraska -	: 6.5	3.0	3.5	17.6
Kansas	5.9	2.7	3.2	13.7
West North Central	: 8,3	3.6	4.7	17.7
	:			
Maryland	: 17.8	7.7	10,1	. 29.4
Virginia	: 21.6	9.8	11.8	25.0
West Virginia	: 22.5	10.5	12.0	24.6
North Carolina	: 21.5	10.4	11.1	18.1
South Atlantic	: 20.0	8,9	11.1	26.4
	:			
Kentucky ·	: 15.8	6.7	9.1	22.4
Tennessee ,	: 18.2	7.8	10.4	17.6
East South Central	: 17.1	7.3	. 9.8	19.9
	:		-	
Oklahoma	: 7.2	4.0	3.2	15.2
Texas	:5.0	2.5	2.5	16.0
West South Central	: 6.5	3.5	3.0	15.5

BARIEY: Labor requirements per acre 1/ - Continued

· 9	Har	: : 1929–38		
State	Total	Preharvest:	Harvest	: average : yield : per acre
	Hours	Hours	Hours	Bushels
•		•	= 141	
Montana	9.0	4.0	5.0	19.0
Idaho	11.0	5.0	6.0	33.8
Wyoming '	11.8	4.8	7.0	21.2
Colorado	11.0	5.5	5.5	19.0
New Mexico	12.0	6.0	6.0	20.8
Arizona	13.5	6.5	7.0	30.4
Utah	14.0	7.0	7.0	37.6
Nevada	15.0	8.0	7.0	37.2
Mountain	11,0	5.3	5.7	22.9
			-	
Washington	9,0	4.0	5.0	31.6
Oregon	9.5	4.5	5.0	29.0
California	9,8	4.5	5.3	26.7
Pacific	9.7	4.5	5.2	27.3
United States	9.6	4.2	5.4	20.2

I/ Barley harvested for grain. According to the 1940 census the following percentage of the total barley acreage in specified States was irrigated in 1939: Montana, 30 percent; Idaho, 45 percent; Wyoming, 71 percent; Colorado, 50 percent; New Mexico, 74 percent; Arizona, 98 percent; Utah, 91 percent; Nevada, 100 percent; Washington, 13 percent; Oregon, 29 percent; and California, 28 percent.

Machine and Labor Performance

The rate of combining barley is about the same as that for wheat. The performance of combines by size are shown in the wheat statement, page 18. Rates of performance in cutting and shocking barley and wheat are about the same, unless there is considerable difference in growth. Hauling to barn or stack, and threshing, frequently are somewhat higher for barley than for wheat because of additional barley growth and yield. Rates of work are shown in the wheat statement, page 18.

BUCKSHEAT: Labor requirements per acre 1/

	-	tra relativa - Martidostina yetin republikanya kanana ganggan dakar		
		an hours per a	cre	1930-39
State	Total :	Preharvest	: Harvest :	average yield per acre
	· Hours	Hours	Hours	Bushels
Maine	25.0	12.0	13.0	17.0
Vermont	25.5	12.0	13.5	20.5
New England	25.1	12.0	13.1	17.6
New York	20.0	8.7	11.3	17.2
New Jersey	18.0	6.8	11.2	19.6
Pennsylvania	20.C	8.4	11.6	17.6
Middle Atlantic	20.0	8.6	11.4	17.4
	• • • • • • • • • • • • • • • • • • •			
Chio	17.5	7.5	1.0.0	16.6
Indiana	: 17.0	7.5	9.5	13.7
Illinois	16.0	7.0	9.0	14.6
Michigan	: 18.0	7.5	10.5	12.1
Wisconsin :	18.0	8.0	10.0	11.1
E. N. Central	17.7	7:-6	10.1	13.1
Minnesota	14.0	5.0	9.0	9.4
Icwa :	14.0	6.0	· 8.6 -	12.6
Missouri :	18.0	8.5	9.5	10.1
Horth Dakota :	12.0	5.0	7.Ö	6.1
South Dakota :	12.0	5,0	7.0	6.8
W. N. Central	14.0	5.3	8.7	9.6
Delaware	18.0	8.0	10.0	10.8
Mary land	21.0	8.5	12.5	19.2
Virginia	23.0	10.0	13.0	12.8
West Virginia :	24.0	10.0	14.0	16.9
Worth Carolina :	24.0	10.5	13.5	14.1
South Atlantic :	23.1	9.8	13.3	15.3
Kentucky :	22.0	10.0	12.0	9.8
Tennessee :	22.5	10.0	12.5	12.0
E. S. Central :	22.3	10.0	12.3	11.0
:		The state of the s	ute typ 1gt CV majoriniscoperates, des vistes desput destantes destantes des militaries des	The state of the s
United States:	19.8	3.5	11.3	16.1.

^{1/} Buckwheat is grown in a cool moist climate, frequently on poor, rough, stony soils. Many of the acreages are small and not well suited to the use of large machines. A small percentage of the crop is combined, with an expenditure of 2 to 3 hours of labor per acre. Many small, rough patches are cut with a cradle, shocked, and threshed, either from shock, barn or stack. Harvesting in this manner requires 14 to 18 hours per acre. Most of the acreage, however, is cut with binder and threshed with a stationary outfit. This procedure requires 7 to 10 hours per acre for harvesting.

CORM: Labor requirements per acre 1/

	1		Man	hours p		-		1930	-
Al. s	: All	field	corn	:	Harvested	for		aver	
State	: :		:		<u>laria</u>	·	Other	; Jie	ld
	Total:			: Cut,	: From :	7.5			acre
		barvest			,:standing		. Dan.		Silage
2000年 1 2000年 2000年	o o to was and some b		<u>.</u>	: husiend	istals 2/	age	poses		
	Hours	Hours	Hours	Hours.	Hours	Hearts	Hours	Bushels	Tons
	:	Many mathematics and	- Calman and Aller	allegania read completes			designation confidenced	makers and all the substitution of the	
aine	: 72.4	43,0	29.4	38.4	and the same	29.7	10.0	38.6	10,52
ew Hamostine	: 71.8	43.0	28.3	38.6	•••	29.6	10.0	412	10,96
ermant	: 71.8	43.0	28.8	38.5	-	25.7	10.0	40.0	10,53
Essachusetts		43.0	28.2	38.6		29.6	10.0	41-1	10.81
bode Island	: 72.4	43.0	29.4	38.6	-	29.6	10.0	39.7	9,60
	: 73.0	43.0	30.0	38.6		29.6	10.0	38,5	10.65
	: 72.1	45.0	29.1	38.6		29.6		39.7	10.60
	4					·			
New York	: 52.5	31.4	21.1	27.4		21.2	10.0	34.2	9,29
A STATE OF THE STA	. 43.5	25.4	23.1	24.8	-	19.1	10.0	38.4	9.05
	47.6	23.8	23.8	25.5	/ <u>-</u>	19.8	10.0	40.2	9.15
Midatlantic		26.3	22.9	25.7		20.6	10.0	35.1	9.23
And the same of	2		*		A. ,	,			-
Ohio	34.8	15.8	19.0	20.7	6.9	18.0	10.0	39.8	8.35
Indiana	21.8	12.6	9.2	18.2	6.6	15.0	7.0	36,2	7.58
Marine Control of the	17.1	10.0	7.1	15.6	5.8	12.0	6.0	36.2	7.1.2
	35.9	19.5	17.4	18.9	6.9	16.0	10.0	30.9	7.55
-	31.4	17.6	13.8	15.9	6.6	-14.0	8.0	32.4	6,96_
	24.5	13.2	11.3	18.7	6.1	14.4		36.1	7.14
Vinnesota :	25.3	14.0	11.3	16.7	6 • 4:	14.0	6.0	30.6	6.97
Lowa '	16.5	10.1	6.4	15.6	5.8	12.0		37.2	8.11
A mar	20.4	12.0	8.4	17.3	6.3	15.0	8.0	20.6	5.20
	12.6	3.0	4.6	10.1	4.6	10.0	3.4	14.0	2.72
_	13.0	7.6		10.2	4.7	12.0		11.2	3,36
	: 11.8	7.0	4.8	8.2	4.2	10.0	3.0	14.6	3 = 35
	11.9	6.9	5.0	8.2	4.2	11.0	3.2	12,2	3.41
	16.4	9.6	6.8	14.3	5.3	11.9	4.1	24.9	5,03
				:				,	
Delamare	45.8	22.0	23.8	24.0	- , "	20.0	10.0	27.7	8,90
Maryland	46.6	22.1	24.5	25.0	0000 °	13.0	9.0	31.6	8,90
Virginia :	43.8	22.3	21.5	22.0	***	20.0	8.0	22.2	9.10
West Virginia :		25.9	23.5	24.0		2000	10.0	24.7	8.40
North Carolina:	42.1		10.9	-	11.0	17.0	5.0	18,3	5.80
South Carolina:		27.8	9.9		10:0	15.0	5.0	13.5	4.15
Georgia	37.7	28.8	8.9	-	9.0	14.0	Ǖ0	9.7	4.40
-	42.3	33-5	8.8	-	9,0	14.0	5.0	8.9	4.56
	40.6	28.2	12.4	23.1	9.7	18.8	5.8	15.1	8.09

CORN: Labor requirements per acre 1/ - Continued

	:		Man	hours p	er acre			: 1930)-39
	: All	field c			arvested	for		: aver	
	: :		:	Gra					eld
State	: :	Pre-	: Har-:		: From	-:	. Other	_	acre
	:Total:	harvest			:standing	: Sil-		•	
	: :				:stalk 2			1776111	Silag
	: Hours	Hours	Hours	Hours	Hours		Hours	Bushels	:Tons
	:								7.
Kentucky	: 40.9	21.1	19.8	20.0	dens	18.0	8.0	22.4	7.30
Tennessee	: 40.9	21.1	19.8	20.0	-	18.0	8.0	21.2	5.90
Alabama	: 40.2	30.8	9.4	-	9.5	10.0	5.0	12.4	2.93
Mississippi	: 43.0	33.1	9.9	-	10.0	15.0	5.0	14.5	4.84
E.S.Central	: 41.4	27.0	14.4	20.0	9.7	17.0	6.1	17.3	6.25
Arkansas	37.8	28.0	9.8		10.0	12.0	5.0	14.4	4.25
Louisiana	: 39.9	30.0	9.9	-	10.0	12.0	5.0	14.4	3.67
Oklahoma	: 30.2	23.3	6.9	**	7.0	8.0	3.2	13.1	3,30
Texas	: 26.0	19.8	6.2	dame .	6.4	8.0	3.0	15.4	3.04
W.S.Central	: 31.3	23.7	7.6	-	7.8	8.8	3.5	14.6	3, 35
Montana	12.6	8.0	4.6	10.0	4.6	10.0	3.4	9.9	3.04
Idaho	: 29.8	.20.6	9.2	3/	6.0	18.0	5.0	35.2	8.53
Wyoming	: 12.6	8.0	4.6	10.0	4.4	10.0	3.4	10.0	4.32
Colorado	: 13.3	8.0	5.3	10.0	4.4	9.5	3.4	10.0	3.70
New Mexico	: 13.5	8.0	5.5	10.0	4.4	11.0	3. 6	13.3	5.05
Arizona	: 14.5	8.5	6.0	10.0	4.4	11.5	4.0	15.2	6.50
Utah	: 31.3	20.6	10.7	<u>3</u> /,	6.0	18.0	5.0	24.0	9.10
Nevada	: 33.6	20.6	13.0	3/	6.0	18.0	5.0	26.7	8.72
Mountain	: 13.8	8.4	5.4	10.0	4.4	11.0	3.5	12.4	4.66
Washington	28.3	18.1	10.2	3/,	6.0	18.0	5.0	34.4	10.21
Oregon	28.9	18.4	10.5	3/	6.0	16.0	5.0	30.2	6.43
California	: 26.0	16.1	9.9	3/ 3/	6.0	18.0	5.0	32.8	8.84
Pacific	: 27.7	17.5	10.2		6.0	17.0	5.0	32.0	7.94
United States		17.2	10.1	19.1	7.0	15.1	4.8	23.5	6.84

L/ According to the 1940 census the following percentage of the total corn agre age in specified States was irrigated in 1939: Montana, 18 percent; Idaho, 92 percent; Wyoming, 20 percent; Colorado, 22 percent; Hew Mexico, 32 percent; Arizona, 47 percent; Utah, 91 percent; Hevada, 100 percent; Washington, 43 percent; Oregon, 16 percent; and California, 72 percent.

^{2/} The labor requirements for harvesting corn from the standing stalk are State averages, including machine and hand husking. In the indicated Northern States the corn is usually husked from the standing stalk, pitched directly into a wagon that is driven along the row and then hauled to the crib. In the Southerr States where snapping from the standing stalk is indicated, the corn is usually pulled from the stalk, thrown into piles, and later hauled to the crib. Some of the corn is fed in the shuck and some is husked as it is taken from the crib. Previous to pulling corn in the South a part of the crop (probably about one—third) is stripped of its blades and topped. These are tied in small bundles and hauled to the farmstead where they are stored and used largely for mule feed. This practice is becoming less prevalent as the acreages of forage crops is increased.

^{3/} Some corn is cut, hauled to farmstead and ears pulled as used. Harvest labor required by this method of harvesting is usually from 10 to 15 hours per acre.

CORN: Percentage of planted acreage harvested for different purposes and abandoned, 1939 1/

	marine and an artist of the second			4.3		
- 1 	Per	centage o	f total	planted a	creage, 1939	:
State	shocked,	Husked or pulled from standing stalk	<pre>: vested : for : silage</pre>	vested by	Acreage abandoned 1939	Total
	: Percent	Percent			· · ·	Danaga
	: Percent	Fercent	rercent	Percent	Percent	Percent
Maine	. 29 .	- .	57	14	·	100
New Hampshire	20 .	-	67.	13	<u> </u>	100
Vermont .	11	-	30	9	_	100
Massachusetts	, 18	_	6Ĝ	16	_ ·	100
Rhode Island	. 20	- ,	70	10		100
Connecticut	. 22	<u> </u>	70	8	i	· 100 =
New England	17	_	72	11	- '*'	100
•					1	
New York	, 25 ·	_	60	15	en e	: 100
New Jersey	. 77	_ `	. 191.	.4		: 100
Pennsylvania	. 77	-	19	4	- 1 di	100
Mid. Atlantic	61	_	3,2-1	7	-:	100
			411			
Ohio	85.	10	210	3	- ;	100
Indiana ·	20	75	. 3 /	2		100
Illinois ·	12	34	2	.2		100
Michigan ·	. 74	9.	15	: ,2	iju ≟	100
Wisconsin	38	8	48	6.		100
E.N. Central	35	54	8	3		100
						L
Minnesota	41	38	10-	11 /	_	100
Iowa	5	90	2	. 3	<u> </u>	100
Missouri	18	77	i"	. 4	_	100
North Dakota	7 .	10	1:0	71	2	100
South Dakota	12	53	3	20	12	100
Nebraska	9 .	63	5	10	8	100
Kansas	6	57	3	12	17	100
W.N. Central	13	67 -	4	. 11	5	100
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,					
Delaware	97	_	2	1.	-	100
Maryland	: 95		4	1	· ·	100
Virginia	; 94		3 .	.3	_	100
West Virginia	94	_	4	2	_	100
North Carolina	: -	97	ī	2	_	100
South Carolina	: -	98	2/	2	<u> </u>	100
Georgia	:	98	$\frac{2}{2}$	2	, 4 <u>-</u> f	100
Florida	-	. 98	2/ 2/ 2/	2	19 kl <u>z</u> 19	100
So. Atlantic	20	77	<u>i</u>	2		100
001110101010						

CORN: Percentage of planted acreage harvested for different purposes and abandoned, 1939 1/ - Continued

						
	Perce	ntage of t	total_plan	ntedacre	age, 1959	
State	:	Husked or	Har-	Har-		:
50400	: Cut, :	pulled	vested	vested	Acreage	•
	: shocked;	from	for	by	abandoned	Total
	: husked :	standing	silage	other	1939	
	Danasah	stalk		means	D+	Damaani
	: Percent	Percent	Percent	Percent	Percent	Percent
Kentucky	98	_	1	1	_	100
Tennessee	98	_		2	_	100
Alabama	; –	94	2/ 2/ 2/	2	4	100
Mississippi	<u> </u>	91	2/	3	6	100
E.S. Central	. 44	51	2/	2	3	100
	:					
Arkansas	-	93	2/	4	3	100
Louisiana	: -	95	2/	3	2	100
Oklahoma	: -	91	2/	4	5	100
Texas	–	88	2/	7	5	100
W.S.Central	:	91	2/	5	4	100
Montana	9	27	3	53	8	100
Idaho	:	76	. 15	9	_	100
Wyoming	- 6	29	4	39	22	100
Colorado	10	42	5	15	28	100
New Mexico	15	55	2	14	14	100
Arizona	15	36	7	21	21	100
Utah	_	32	36·	32	_	100
Nevada	_	50	59		_	100
Mountain	10	41	5	21	23	100
				······································		
Washington	-	38	28	34	-	100
Oregon	-	53	30	17	_	100
California	_	64	18	18	_	100
Pacific	_	54	25	21	_	100
:						
United States	22	64	5	6	3	100

^{1/} These estimated percentages are only approximate. Undoubtedly in some States some corn is harvested by all of the methods shown.
2/ Less than one percent.

GRAIN SORGHUMS: Labor requirements per acre 1/

		1929-38			
State 	Total	Preharvest	:	Harvest	average yield per acre
* · · · · · · · · · · · · · · · · · · ·	Hours	Hours		Hours	Bushels
Missouri /	15.0	8.0		7.0	12.6
South Dakota	: 12.5	6.0		6.5	2/ 9.5
Nebraska	12.5	6.0		6.5	11.8
Kansas	12.0	6.0		6.0	10.4
West North Central	12.3	6.1		6.2	10.6
	<i>f</i>	1			
Arkansas	18.0	10.0	• •	8.0	10.6
Oklahoma	12.0	6.0		6.0	9.5
Texas	11.5	5.0		6.5	14.1 /
West South Central	11.7	5.3		6.4	12.8
Colorado	12.0	6.0		6.0	9.4
New Mexico	11.5	5.5		6.0	11.8
Arizona	17.0	9.0		8.0	28.5
Mountain	11.9	5.8		6.1	13.2
					- 1
California	18.0	10.0		8.0	29.0
	3				i est
United States	12.1	5.7		6.4	12.9

1/ Harvested for grain / Harvesting in the form of bundles, heads, or silage usually requires about one-half hour less per acre, including hauling. Includes kafirs, milo, feterita, durra, etc.

According to the 1940 census the following percentage of the total grain sorghum acreage in specified States was irrigated in 1939; Colorado, 6 percent; New Mexico, 7 percent; Arizona, 93 percent; and California, 85 percent.

2/ Yield for 1939.

OATS: Labor requirements per acre 1/

	:	Man ho	urs per	acre		:	
State	T	hreshed	2/	Unthreshed 3/			1930-39 average
		Pre- :		0 0	Pre-		yield
	: Total:	harvest:	Harvest	: Total:	harvest:	Harvest:	per acre
	Hours	Hours	Hours	Hours	Hours	Hours:	Bushels
	:			:		:	
Maina	30.0	15.0		22.5	15.0	7.5:	
New Hampshire	30.0	15.0		22.5	15.0	7.5 :	
Vermont	30.0	15.0		22.5	15.0	7.5:	
140.000.001.000.000	20.8	9.0		: 15.0	9:0	6.0 :	
Rhode Island	20.0	9.0		: 15.0	9.0	6.0 :	
Connecticut	20,0	9.0		: 15.0	9.0	6.0:	
New England	29.5	14.7	14.8	20,8	13.6	7.2:	35.2
N	70.0		0.0				
New York	16.0	7.2		12.8	7.2	5.6	
New Jersey	15.5	7.0		: 12.4	7.0	5.4:	
Pennsylvania,	16.0	7.2		: 12.8	7.2	5.6:	
Middle Atlantic	15.8	7.2	8,6	: 12.8	7.2	5.6	28.6
01:4:	70.6	4.0	C A	. 70.0	4 0	F 0	70 17
Ohio	10.6	4.2	- • -	10.0	4.2	5.8	
Indiana	8.0	2.4		7.2	2.4	4.8	,
	7.4	1.8		7.0	1.8	5.2	
Michigan Wisconsin	11.6	5.2	6.4	. 70 0	F 0	- :	
East North Central	9.7	5.8 3.6		12.2	5.8 2.7	6.4 5.3	
Eag o North Central	9,1	0,0	OeT	0.0	<u> </u>	0.0	23.0
Minnesota	7.6	1.9 .	5.7	• \$	-		31.2
Iowa	7.8	1.8		6.8	1.8	5.0	
Missouri	10.0	4.0		9.0	4.0	5.0	
North Dakota	6.0	2.4		6.6	2.4	4.2	
South Dakota	5.8	2.3		6.4	2.3	4.1	
Nebraska	5.4	1.6	3.8	5.6	1.6	4.0	
Kansas	6.5	2.6	3.9	6.5	2.6	3.9	
West North Central	7.1	2.2	4.9	7.4	2.9	4.5	
				:			
Delaware	14.0	6.3	7.7	-		:	30.2
Maryland	16.0	7.2	8.8	: -		:	28.4
Virginia	20.0	9.0		: 15.0	9.0	6.0	19.6
West Virginia	21.0	9.4		: 15.7	9.4	6.3	19.6
North Carolina	19.0	7.6	11.4	: 13.3	7.6	5.7	19.6
South Carolina	18.0	7.2	10.8	: 12.6	7.2	5.4	
Georgia	18.0	7.2	10.8	: 12.6	7.2	5.4	19.2
Florida	18.0	7.2	10.8	: 12.6	7.2	5.4	
South Atlantic	18.4	7.5	10.9	: 13.0	7.5	5,5	20.6

OATS: Labor requirements per acre 1/ - Continued

	:	Man	hours p	per acre			1070 70
State	:	Threshe	d 2/	J.	Inthresh ed	1 3/	1930-39 average
	Total	: Pre- :harvest	Harvest	Total	Pre-	Harvest	yield per acre
	Hours	Hours	Hours	:Hours	Hours	Hours	Bushels
Kentucky Tennessee Alabama Mississippi East South Central	16.0 17.0 18.0 18.0	7.2 6.8 7.2 7.2	8.8 10.2 10.8 10.8	12.8 11.9 12.6 12.6	7.2 6.8 7.2 7.2 7.1	5.6 5.1 5.4 5.4	16.3 16.2 19.2 23.5
Arkansas Louisiana Oklahoma Texas West South Central	: 18.0 : 13.0 : 10.0 : 10.0	8.1 8.1 4.0 4.0	9.9 9.9 6.0 6.0	13.5	8.1 8.1 4.0 4.0	5.4 5.4 5.5 5.5	19.4 25.0 20.0 23.8 21.9
Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada Mountain	8.9 10.5 11.5 12.5 12.5 12.4 14.0 15.7	4.0 4.2 4.6 5.6 5.6 5.3 7.4 8.0 4.7	4.9 6.3 6.9 6.9 6.6 6.6 7.7	8.6 9.4 10.4 10.6 10.6 10.6 12.2 12.2	4.0 4.2 4.6 5.6 5.6 5.3 7.4 3.0 4.9	4.6 5.2 5.8 5.0 5.0 4.8 4.8 4.2 4.9	23.0 : 35.9 : 24.4 : 27.8 : 23.4 : 26.7 : 35.8 : 35.3 : 27.4
Washington Oregon California Pacific United States	9.3 ; 9.4 : 3.3 : 9.2 : 9.0	4.0 4.0 3.5 3.9	5.3 5.4 4.8 5.3	9.0 9.0 8.0 3.4	4.0 4.0 3.5 3.7	5.0 5.0 4.5 4.7	48.2 31.3 27.3 36.1

^{1/} According to the 1940 census the following percentage of the total oat
acreage in specified States was irrigated in 1939; Montana, 32 percent;
Idaho, 40 percent; Tyoming, 71 percent; Colorado, 57 percent; New Mexico,
48 percent; Arizona, 68 percent; Utah, 95 percent; Nevada, 100 percent;
Washington, 13 percent; Oregon, 13 percent; and California, 16 percent.

^{2/} Includes oats that were combined.

^{3/} Includes grain cut with binder, mower, and cradle for feed in the straw.

OATS: Acreage harvested by different methods in 1938, and machine and labor performance for harvesting by different methods $\underline{1}/$

	Oats acre	age harvested w	ith -
State	;	D:1	Other
	. Combine	Binder :	methods
	: :	:	2/
	Percent :	Percent	Percent
New York	: 5	86	9
New Jersey	: 18	70	12 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Pennsylvania	: 4	91	5
Mid. Atlantic	5	88	7
Ohio	: 14	O.F.	
Indiana		85	1
Illinois	: 20	7,8	2
	: 22	77	1
Michigan Misconsin	: 9	89	2
	: 3	95	2
E. N. Central	: 14	84	2
Minnesota	3	96	1
Iowa	: 8	91	1
Missouri	: ' 9	82	9
North Dakota	: 6	89	5
South Dakota	: 2	96	2
Nebraska	: 6	92	2
Kansas	: 18	80	2 /
W. N. Central	; 7	91	2
Delaware	; 5	95	3/
Maryland	· 2	92	<u>3</u> / 6
Virginia	· ~ 4	60	36
Vest Virginia	, 2	35	63
North Carolina	12	44	44
South Carolina	7	53	40
Georgia	7	41	52
So. Atlantic	3	48	44
76 4 1	,	CO	7 -
Kentucky	; ; 5	62	35
Tennessee		71	24
Alabama	: 10	18	72
Mississippi	: 23	19	58
E. S. Central	: 10	39	51
Arkansas	° 4	41	55
Louisiana	; 26	- 22	52
Oklahoma	; · 10	24	6
Texas	: 13	73	9
W. S. Central	: 12	60	23

OATC: Acreage harvested by different methods in 1938, and machine and labor performance for harvesting by different methods 1/ - Continued

	Oațs	acrea	ige harveste	ed wit	h -
State		:)		ę.	Other
:	: Combine	:	Binder	•	methods
		:		•	2/
•	Percent		Percent		Percent
Montana	10		81		9
Idaho	25		73		2
Wyoming	7		80		13
Colorado	7		86		7
New Mexico	15		74		11
Arizona	: 22		78		- ,
Utah	6		94		<u>3</u> /
Nevada	47		53		-
Mountain	· 11		81		8
Washington	35		59		6
Oregon	37		61		6 2
California	4/		4/		4/
Pacific	37		60		3
United States	10		83		7 .

^{1/} Acreages harvested by different methods taken from U.S.D.A. Agricultural Statistics, 1940, table 686, page 563. Data on performance summarized from Federal and State data.

3/ Less than one-half of one percent.

 $\frac{1}{4}$ / No data obtained.

Machine and Labor Performance

The percentage of oat acreage combined is considerably less than that of wheat because oat straw is more valuable for livestock feed and bedding.

The rate of combining oats is about the same as that for wheat. The performances of combines by size are shown in the wheat statement, page 13.

Rates of performance in cutting and shocking oats and wheat are about the same unless there is considerable difference in growth. Hauling to the barn or stack and threshing from barn, stack or field frequently are somewhat higher for oats than for wheat because of the additional oat growth and yield. In the Middle Test and East it takes around one hour more for oats than for wheat. Rates of work are shown in the wheat statement, page 13.

^{2/} Includes grain cut with header, mower and cradle.

RICE: Labor requirements per acre 1/

:	Man hours per acre : 1930-39					
State :	Total	: average : yield : per acre				
:	Hours	Hours	Hours	Bushels		
Arkansas	32.0	18.0	14.0	50.5		
Louisiana	33.0	19.0	14.0	40.7		
Texas	31.0	18.0	13.0	51.7		
California :	30.0	16.0	14.0	69.6		
United States:	32.0	18.0	14.0	48.5		

^{1/} High seasonal temperature, soils of medium to rather heavy texture and irrigation limit rice production. Rice is harvested with a binder and placed in shocks of 10 to 12 bundles. In good weather rice requires 10 to 14 days to cure before it is thrashed.

The second secon

RYE: Labor requirements per acre 1/

	:		landromer odnovina del	•	:Percentage
		hours per	acre	: 1930 -3 9	of 1930-38
State	•	mearb por	2010	: average	: average
2 0 4 0 0		Fre-	:	: yield	: acreage
			: Harvest	: per acre	: that was
			:	• por acro	: harvested
	Hours	Hours	Hours	Bushels	Percent
	ten Abbertander - Jacob	decides reactions			
New York	: 18.2	8.6	9.6	15.8	37.3
New Jersey	: 16.3	6.8	9.5	17.3	26.1
Pennsylvania	: 18.1	8.3	9.8	14.1	78.0
Mid. Atlantic	: 17.5	7.8	9.7	15.0	53.2
	:	7	ann in dien de militar de capens de che este este este este este este este es		
Ohio '	: 14.7	6.1	8.6	14.0	, 46 _• 3
	: 13.1	5 .7	7.4	11.8	54.8
	: 11.3	4.8	6.5	12.1	47.1
Michigan	: 15.2	7.0	8.2	12.1	68.3
Wisconsin	: 15.5	7.0	8.5	10.9	67.8
E. N. Central	: 14.2	6.2	8.0	11.9	59.2
	:				
	: 10.0	4.0	6.0	15.0	78.3
	: 10.5	4.5	6.0	14.5	50.3
Missouri	: 14.6	7.6	7.0	9.4	27.4
	: 7.0	3.0	4.0	9.2	60.5
	: 6.3	2.7	3.6	10.5	45.7
	: 6.1	- 2.6	3.5	8.9	62.6
Kansas	5.2	2.5	2.7	10.5	37.7
W. N. Central	7.5	3.2	4.3	10.8	57.7
Delaware	: 16.2	7.5	8.7	-12.4	53.8
		7.5 7.5	9.6	13.0	47.5
	: 17.1 : 20.7	7.5 9.7	11.0	11.6	41.9
757 1 4 4	: 20.7	10.5	11.4	11.7	57.9
	: 20.6	10.5	10.2	7.5	38•5
G 13 G 3.4	: 21.3	10.4	10.2	8.4	37.0
Georgia	19.8	9.0	10.5	6.0	30.5
So. Atlantic	20.0	9.6	10.8	9.5	40.3
Z O W O LAIT O LO		0.0	TO®	J • U	₩,0
Kentucky	15.0	6.5	8.5	10.9	16.0
Tennessee	17.3	7.6	9.7	6.9	22.5
E. S. Central	16.5	7.1	9.4	7.9	19.5

⁻ Continued -

RYE: Labor requirements per acre 1/ - Continued

State:	Man Total		-	: 1930-39 : average : yield : per acre	:Percentage : of 1930-38 : average : acreage : that was : harvested
	: Hours	Hours	Hours	Bushels	Percent
Oklahoma Texas W. S. Central	6.8 4.4 6.6	3.8 2.2 3.7	3.0 2.2 2.9	7.9 ·10.0 8.1	39.1 42.8 39.5
Montana Idaho Wyoming Colorado Utah Mountain	: 6.3 : 10.6 : 7.4 : 7.1 : 10.0 : 7.2	3.0 4.8 3.4 3.7 6.0	3.3 5.8 4.0 3.4 4.0	9.4 10.7 6.5 7.2 7.6	47.9 42.9 51.1 50.0 75.0 49.5
Washington Oregon California Pacific	6.5 6.8 5.0 6.6	3.5 3.6 - 3.0 3.5	3.0 3.2 2.0 3.1	8.3 12.5 12.6 11.1	40.4 31.6 61.5 36.3
United States	: 9.9	. 4.5	5.4	10.9	53.9

These requirements are for rye harvested for grain. On the average only about 54 percent of the rye acreage that is seeded for all purposes is harvested. Much of the crop that is not harvested is plowed under. The preharvest hours shown for rye that is harvested for grain are fairly representative of the total hours per acre spent on rye that is not harvested.

According to the 1940 census the following percentage of the total rye acreage was irrigated in 1939: Montana, 3 percent; Idaho, 29 percent; Wyoming, 9 percent; Colorado, 9 percent; Utah, 38 percent; Washington, 2 percent; Oregon, 20 percent; and California, 17 percent.

Machine and labor performance

In general, the rate of combining rye is about the same as that for wheat. This is true also for cutting, shocking, and threshing, unless there is considerable difference in growth. (See page 18)

WHEAT: Labor requirements per acre 1/

State		Ma	n hours per acr	e	1070 70
Total Preharvest Harvest yield Preharvest Hours Preharvest Hours Preharvest Preharvest	2+2+0		The second section and the second section sect		-
Hours Hours Hours Bushels	5 6a 6e	Total	· Drobo retroat	Towardat	~
Hours Hours Hours Hours Bushels	:	TOTAL	: Fremarvest:	Harvest	•
Maine : 23.3 11.2 12.1 20.2 Mew York : 16.2 8.6 9.6 21.6 New Jersey : 16.3 6.8 9.5 22.2 Pomsylvania : 18.1 8.3 9.8 19.7 Mid. Atlantic : 18.1 8.5 9.6 20.2 Ohio : 14.7 6.1 8.6 20.1 Indiana : 15.1 5.7 7.4 17.6 Illinois : 11.3 4.8 6.5 18.0 Michigan : 15.2 7.0 8.2 20.7 Visconsin : 15.2 6.9 8.3 16.4 E. N. Central : 18.3 5.7 7.6 18.8 Minnesota : 9.9 3.8 6.1 13.3 Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.8 19.2 Virginia : 21.1 9.9 11.2 14.4 Worth Carolina : 20.9 10.4 10.5 10.9 South Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4		·	<u> </u>		
New York		Hours	Hours	Hours	Bushels
New York	Maine	23.3	. 11.2	12.1	20.2
New Jersey 16.3 6.8 9.5 22.2 Pennsylvania 18.1 8.3 9.8 19.7 Pid. Atlantic 18.1 8.5 9.6 20.2	4/40-444		77.90	10,11	5045
New Jersey 16.3 6.8 9.5 22.2 Pennsylvania 18.1 8.3 9.8 19.7 Pid. Atlantic 18.1 8.5 9.6 20.2	New York	18.2	8.6	9.6	21.6
Pennsylvania					
Mid. Atlantic 18.1 8.5 9.6 20.2 Ohio 14.7 6.1 8.6 20.1 Indiana 13.1 5.7 7.4 17.6 Illinois 11.3 4.8 6.5 18.0 Michigan 15.2 7.0 8.2 20.7 Visconsin 15.2 6.9 8.3 16.4 E. N. Central 13.3 5.7 7.6 18.8 Minnesota 9.9 3.8 6.1 13.3 Icwa 10.6 4.5 6.1 17.4 Missouri 14.6 7.6 7.0 14.4 North Dakota 6.5 2.8 3.7 8.0 South Dakota 5.9 2.5 3.4 7.7 Nebraska 5.7 2.4 3.3 13.1 Kansas 4.6 2.3 2.3 11.8 W. N. Central 6.3 2.9 3.4 10.9 Delaware 16.2 7.5 8.7 17.5 Maryland 17.3 7.5 9.3					
Ohio : 14.7 6.1 8.6 20.1 Indiana : 13.1 5.7 7.4 17.6 Illinois : 11.3 4.8 6.5 18.0 Michigan : 15.2 7.0 8.2 20.7 Visconsin : 15.2 6.9 8.3 16.4 E. IN. Central : 13.3 5.7 7.6 18.8 Illinois : 14.6 7.6 7.6 18.8 Illinois : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Illinois : 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.1 9.9 11.2 14.4 West Virginia : 22.1 9.9 10.4 10.5 10.9 South Carolina : 20.9 10.4 10.5 10.9 South Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Temmessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4	· ·	and the second s			
Indiana : 13.1 5.7 7.4 17.6 Illinois : 11.3 4.8 6.5 18.0 Michigan : 15.2 7.0 8.2 20.7 Visconsin : 15.2 6.9 8.3 16.4 E. N. Central : 13.3 5.7 7.6 18.8 Illinois : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Illinois : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia So. Atlantic : 25.4 6.6 8.8 14.0 Termessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4		Endotte decide and the charge and specimen			
Illinois : 11.3	Ohio	14.7	6.1	8.6	20.1
Michigan : 15.2 7.0 8.2 20.7 Visconsin : 15.2 6.9 8.3 16.4 E. TN. Central : 15.3 5.7 7.6 18.8 Minnesota : 9.9 3.8 6.1 13.3 Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina	Indiana	13.1	5.7	7.4	17.6
Wisconsin : 15.2 6.9 8.3 16.4 E. N. Central : 18.3 5.7 7.6 18.8 Minnesota : 9.9 3.8 6.1 13.3 Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia	Illinois	11.3	4.8	6.5	18.0
Minnesota : 9.9 3.8 6.1 13.3 1.0 Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.8 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 Kentucky : 15.4 6.6 8.8 14.0 Temmessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.5	Michigan	15.2	7.0	8.2	20.7
Minnesota : 9.9 3.8 6.1 13.3 Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4	Wisconsin		- 6.9		16.4
Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee	E. IN. Central	13.3	5.7	7.6	18.8
Iowa : 10.6 4.5 6.1 17.4 Missouri : 14.6 7.6 7.0 14.4 North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee					
Missouri 14.6 7.6 7.0 14.4 North Dakota 6.5 2.8 3.7 8.0 South Dakota 5.9 2.5 3.4 7.7 Nebraska 5.7 2.4 3.3 13.1 Konsas 4.6 2.3 2.3 11.8 W. N. Central 6.3 2.9 3.4 10.9 Delaware 16.2 7.5 8.7 17.5 Maryland 17.3 7.5 9.3 19.2 Virginia 21.1 9.9 11.2 14.4 West Virginia 22.2 10.6 11.6 15.0 North Carolina 20.9 10.4 10.5 10.9 South Carolina 21.6 10.9 10.7 10.0 Georgia 20.1 8.9 11.2 9.2 So. Atlantic 20.0 9.5 10.5 13.8 Kentucky 15.4 6.6 8.8 14.0 Tenmessee 17.8 7.8 10.0 11.3 Alabama 22.4 12.0 10.4					
North Dakota : 6.5 2.8 3.7 8.0 South Dakota : 5.9 2.5 3.4 7.7 Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.8 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
South Dakota 5.9 2.5 3.4 7.7 Nebraska 5.7 2.4 3.3 13.1 Kansas 4.6 2.3 2.3 11.8 W. N. Central 6.3 2.9 3.4 10.9 Delaware 16.2 7.5 8.7 17.5 Maryland 17.3 7.5 9.3 19.2 Virginia 21.1 9.9 11.2 14.4 West Virginia 22.2 10.6 11.6 15.0 North Carolina 20.9 10.4 10.5 10.9 South Carolina 21.6 10.9 10.7 10.0 Georgia 20.1 8.9 11.2 9.2 So. Atlantic 20.0 9.5 10.5 13.8 Kentucky 15.4 6.6 8.8 14.0 Tenmessee 17.8 7.8 10.0 11.3 Alabama 22.4 12.0 10.4 10.4					
Nebraska : 5.7 2.4 3.3 13.1 Kansas : 4.6 2.3 2.3 11.8 W. N. Central : 6.3 2.9 3.4 10.9 Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky 15.4 6.6 8.8 14.0 Tennessee 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
Kansas 4.6 2.3 2.3 11.8 W. N. Central 6.3 2.9 3.4 10.9 Delaware 16.2 7.5 8.7 17.5 Maryland 17.3 7.5 9.3 19.2 Virginia 21.1 9.9 11.2 14.4 West Virginia 22.2 10.6 11.6 15.0 North Carolina 20.9 10.4 10.5 10.9 South Carolina 21.6 10.9 10.7 10.0 Georgia 20.1 8.9 11.2 9.2 So. Atlantic 20.0 9.5 10.5 13.8 Kentucky 15.4 6.6 8.8 14.0 Tennessee 17.8 7.8 10.0 11.3 Alabama 22.4 12.0 10.4 10.4					
W. N. Central 6.3 2.9 3.4 10.9 Delaware 16.2 7.5 8.7 17.5 Maryland 17.3 7.5 9.3 19.2 Virginia 21.1 9.9 11.2 14.4 West Virginia 22.2 10.6 11.6 15.0 North Carolina 20.9 10.4 10.5 10.9 South Carolina 21.6 10.9 10.7 10.0 Georgia 20.1 8.9 11.2 9.2 So. Atlantic 20.0 9.5 10.5 13.8 Kentucky 15.4 6.6 8.8 14.0 Tennessee 17.8 7.8 10.0 11.3 Alabama 22.4 12.0 10.4 10.4					
Delaware : 16.2 7.5 8.7 17.5 Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4					
Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4	W. N. Central	6.3	2.9	3.4	10.9
Maryland : 17.3 7.5 9.3 19.2 Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4	Delaware	16.2	7-5	8.7	17.5
Virginia : 21.1 9.9 11.2 14.4 West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
West Virginia : 22.2 10.6 11.6 15.0 North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
North Carolina : 20.9 10.4 10.5 10.9 South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
South Carolina : 21.6 10.9 10.7 10.0 Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
Georgia : 20.1 8.9 11.2 9.2 So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
So. Atlantic : 20.0 9.5 10.5 13.8 Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
Kentucky : 15.4 6.6 8.8 14.0 Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4					
Tennessee : 17.8 7.8 10.0 11.3 Alabama : 22.4 12.0 10.4 10.4	Kentucky	: 15.4	6.6	8.8	14.0
	•		7.8	10.0	11.3
E. S. Central : 16.6 7.2 9.4 12.6	Alabama		12.0		
	E. S. Central	16.6	7.2	9.4	12.6

WHDAT: Labor requirements per acre 1/ -- Continued

and the same of th		<u> </u>		
	· M	an hours per acr	e	: 1930-39
State	* **	: :		average
	: Total	: Preharvest :	Harvest	: yield
	:	: :		: per acre
	: Hours	Hours	Hours	Bushels
	:			:
Arkansas	16.9	8.3	8.6	9.1
Oklahoma	6.7	3.8	2.9	:11.6
Texas	4.1	2.0	2.1	9.6
W. S. Central	5.6	3.0	2.6	10.8
	:			
Montana	6.2	2.9	3.3	10.4
Idaho	: 10.6	4.8	5.8	22.7
Wyoming	7.4	3.4	4.0	10.7
Colorado	7.5	3.9	3.6	12.0
New Mexico,	6.2	2.5	3.7	
Arizona	: 12.5	8.5	4.0	: 22.4
Utah	: 13.2	8.2	5.0	1,9.6
Nevada	: 11.3	7.6	3.7	24.6
Mountain	7.5	3.6	3.9	12.8
	:		_	
Washington	: 6.8	3.6	3.2	; 20.6
Oregon	7.3	3.9	3.4	. 19.8
California	5.4	3.2	. 2.2	18.2
Pacific	6,6	3.6	3.0	. 19.9
This dead of the dead	. 0.8	1 C	4 7	100
United States	: 8.7	4.6	4.1	13.3

^{1/} According to the 1940 Census the following percentage of the total wheat acreage was irrigated in 1939: Montana, 5 percent; Idaho, 21 percent; Wyoming, 8 percent; Colorado, 17 percent; New Mexico, 8 percent; Arizona, 93 percent; Utah, 36 percent; Mevada, 100 percent; Washington, 1 percent; Oregon, 5 percent; and California, 13 percent.

WHEAT: Acreage harvested by different methods in 1938, and machine and labor performance for harvesting by different methods 1/

	: Whe	eat acre	eage ::		Combine Performance 4/	
		rested v	vith - ::		Usual acreage Usual size	
State	:		Other ::	of	cut per 10- of crew	
	:Combine:		:methods:		hour day (Not including	
	: :		2/:		grain haulers)	
	:Percent	Percent	t Percent:	Feet	Acres Men	
	:			5 and		
New York	: 11	87	2 :	8	18-21 2	
New Jersey	: 24	73	3 ::	: 10	20–28 2	
Pennsylvania	:6	92	2 :	: 12	24-33 2	
Mid.Atlantic	8	90	2 :	14	28–36 2	
	:		::	: 15	30-39 2	
Ohio	: 22	77	1 :	: 16	34-40 2-3	
Indiana	: 30	69	1 ::	: 18	36-42 2-3	
Illinois	: 44	55	1 :		40-45 2-3	
Michigan	: 16	84	3/ ::		44–48 2–3	
Wisconsin	: 3	96	ī :			
E.N.Central	: 30	69	1 :	Notes o	on performances	
	:		:		ler performance per 10-hour da	ly:
Minnesota	: 6	94	3/ :		orse-drawn-la acres per foot	
Iowa	: 28	72	3/ 3/ 2		$\frac{1}{2}$ acres per for	
Missouri	: 22	76	2		cut	
North Dakota	: 23	70	7			
South Dakota	: 19	71	10 :	•	the Great Plains Area one good	i
Nebraska	51	48	1		ll shock 10 to 12 acres of whe	
Kansas	: 82	16	2 :		D-hour day; in the Middle Wes	
W.N.Central	48	48			st, where grain is heavier and	
W. St. S COLLUI GIZ					ocks prepared better, one man	
Delaware	: 11	89			nock 5 to 8 acres in a 10-hour	
Maryland	: 3	96		day.		
Virginia	: 3	83	14 :			
West Virginia		58	41 :	~	eat cut with a binder, stacked	1
North Carolina		67			reshed in the Great Plains Reg	
South Carolina		62			es from $5\frac{1}{2}$ to $6\frac{1}{2}$ hours per acr	
Georgia	: 11	45			Middle West and East, from 7	
So.Atlantic	: 6	76			s per acre. Wheat threshed fr	
2041101010	-				ock takes from $3\frac{1}{2}$ to $4\frac{1}{2}$ hours	
Kentu cky	. 8	85			the Great Plains, and 6 to 7	
Tennessee	: 6	85			per acre in the Middle West ar	
Alabama	: 22	35			Wheat stored in the barn and	
E.S.Central	7	85		•	ed in the North and East requi	
D.O.OCHUIAT	·	00			O hours per acre. Wheat cut w	
Arkansas	: 12	68			le, stacked and threshed, take	
Oklahoma	: 70	28			18 hours per acre. Grain haul	
Texas					d and threshed in the Great Pl	
	: 82	18				LATIIO
W.S.Central	: 75	24	1 :	: require	es $3\frac{1}{2}$ to $4\frac{1}{2}$ hours per acre.	

WHEAT: Acreage harvested by different methods in 1938, and machine and labor performance for harvesting by different methods 1/ - Continued

:	Wheat	acrea	age harvest	ted with	_	
:	Combine	:	Binder	: :	Other methods 2/	
:	Percent	-	Percent		Percent	
:	55		40		5	
	40		57		3	
	32	•	60		8	
	44		41		15	
	58		37		5	
	193		7	;	2/	
• •	41		56			
:	63	1.	24		13	
:	50		44		6	
:	22		7 /		7	
					י ר	
					1	
:	84		14		2	,
:						,
	49		47		4	
		Percent	Percent	Percent Percent 55 40 40 57 32 60 44 41 53 37 93 7 41 56 63 24 50 44 83 14 78 21 95 4 84 14	Percent Percent 55 40 40 57 32 60 44 41 58 37 93 7 41 56 63 24 50 44 83 14 78 21 95 4 84 14	Percent Percent Percent

^{1/} Acreages harvested by different methods taken from U.S.D.A. Agricultural Statistics, 1940, table 686, page 563. Data on performance summarized from Federal and State data.

^{2/} Includes grain cut with header, mower and cradle.

^{3/} Less than one-half of one percent.

^{4/} In the Pacific Northwest, larger crews are needed when the grain is sacked. These vary from 3 men on 12- to 14-foot combines to 5 men on 18- to 20-foot combines.

ALFALFA: Labor requirements per acre 1/

	:	· .	alfalfa	hay		; Alfalfa	a seed
	Man h	ours per	acre	Usual	1929-38		s:1929-38
State		: Pre-		cuttings	average	per acre	
	Total	harvest	Harvest	a year	· yield	for harvesting	yield
	Hours	Hours	Hours	Number	Tons	Hours	Bushels
	,	the state of the s	And the Control of th				
Maine	18.0	2.0	16.0	2–3	1.48		,
New Hampshire	18.5	2.0	16.5	2–3	1.97		
Vermont	18.5	2.0	16.5	2-3	2.20		-
Massachusetts Rhode Island	19.5	2.0	17.5	2–3	2.26	***************************************	
Connecticut	19.5	2.0 2.0	17.5 19.0	2-3 2-3	2.28 2.78		
New England	19.5	2.0	17.5	~~J	2.26		
Mem Fultrand		<i>κ</i> •0	11.0		٨.٨٥		
New York	17.5	2.0	15.5	2–3	1.89		
New Jersey	19.0	2.0	17:0	2-3	2.16		
Pennsylvania	17.0	2.0	15.0	2–3	1.39		
Mid. Atlantic	17.4	2.0	15.4		1.91	<u></u>	
Ohio	18.5	1.5	17.0	2–3	1.82	7.5	1.2
Indiana	17.5	1.5	16.0	2-3	1.69	7.5	1.0
Illinois	19.5	1.5	18.0	3	2.04		
Michigan	17.0	1.5	15.5	2–3	1.53	8.0	1.3
Wisconsin	19.0	1.5	17.5	2–3	1.96	7.5	1.1
E. N. Central	18.2	1.5	16.7		1.77	7.7	1.2
					·, · · · · · · · · · · · · · · · · · ·		
Minnesota	17.0	2.0	15.0	2.–3	1.72	7.3	1.4
Iowa	13.5	2.0	16.5	3	2.07	6.5	1.5
Missouri	18.0	1.5	16.5	3	1.90		
	12.0	1.5	10.5	2	1.02	6.5	•9
	: 10.2	1.2	9.0	2	.94	6.5	1.0
	15.0	2.2	12.3	3	1.51	6.5	1.4
Kansas	15.0	2.2	12.8	3	1.52	9.0	1.3
W. N. Central	16.3	2.0	14.3		1.57	7.6	1.4
Delaware	22.0	3.0	19.0	3	2.32		
7/7 - 7	20.0	3.0	17.0	3	1.95	· ·	
*** * *	21.0	3.0	18.0	3	1.72		
West Virginia	22.0	3.0	19.0	3	1.76		
North Carolina	24.2	3.2	21.0	. 3	1.82		
South Carolina	24.5	3.5	21.0	3	1.71		
Georgia	24.0	3.0	21.0	3	1.78		
So. Atlantic	21.4	3.0	18.4		1.82		
	·						

⁻ Continued -

ALFALFA: Labor requirements per acre 1/ - Continued

		Alf	alfa ha	v ,		: Alfalfa s	leed
;	Man	hours per		Usual	:1929-38	· Man hours	
State		:		cuttings	:average	· per acre	:average
50000	Total	D	: Harvest		: yield : per	for	: yield
	;	harvest'	TIGT A GD C	•	acre	harvesting	
	Hours	Hours	TI on an or	Name le	;	;	acre
	Hours	Hours	Hours	Number	Tons	Hours	bushels
Kentucky	20.5	2.5	13.0	3	1.56	prost prost	
Tennessee	20.5	2.5	13.0	3	1.62		
Alabama	22.0	2.5	19.5	3	1.39	-	
Mississippi	29.0	3.0	26.0	- 4	2.20		
3. S. Central	22.2	2.6	19.6		1.70		
Arkansas	27.0	3.0	24.0	4	1.87		****
Louisiana	23.0	3.0	25.0	4	2.08	*********	
Oklahoma	17.0	2.0	15.0	3	1.76	10.0	2.5
Texas	23.0	-6.0	22.0	3-5	2.27	10.0	2.8
W. S. Central	21.7	3.1	18.6		1.88	10.0	2.5
Montana	19.0	5.0	14.0	2-3	1.55	8.0	2.0
Idaho	22.0	5.5	16.5	3	2.42	3.0	2.6
Wyoming	18.5	5.5	15.0	2-3	1.43	3.0	2.1
Colorado	21.0	6.0	15.0	3	1.39	3.0	2.6
New Mexico	23.0	8.0	20.0	4	2.37	12.0	3.5
Arizona	30.0	10.0	20.0	4	2.90	12.5	4.8
Utah	22.0	6.0	16.0	3	2.06	9.0	1.9
Nevada Mountain	22.0	5.0 5.9	17.0 15.5	5	2.17	9.1 ,	2.6
Modificatii	κ1.4	5.9	T2.2		1.99	A•T .	٨.٥
Washington	21.0	3. 5	17.5	3-4	2.52		
Oregon	23.0	5.5	17.5	3-4	2.50	9.0	2.7
California	39.0	14.0	25.0	4-6	4.02	12.0	3.4
Pacific	31.7	9.9	21.8		3.43	11.2	3.3
United States	20.0	3.6	16.4		1.94	3,3	1.9

1/ Hay stored loose. See page 22 for data on baling hay. According to the 1940 census, the percentage of the total alfalfa hay acreage that was irrigated in 1939 was as follows: Texas, 45 percent; Montana, 69 percent; Idaho, 79 percent; Tyoming, 88 percent; Colorado, 92 percent; New Mexico, 96 percent; Arizona, 98 percent; Utah, 91 percent; Nevada, 100 percent; Washington, 44 percent; Oregon, 72 percent; and California, 93 percent. A large part of the alfalfa seed was also grown on irrigated lands in these States.

From data available it appears that a seeding of alfalfa is generally good for 4 to 5 years before plowing up in most States. In the North, as in Montana and Michigan, the usual period of stand is 3 to 5 years, and in the Southwest as in Arkansas, Texas, and California, the crop is usually left for 5 to 6 years.

ALL HAY: Additional labor requirements per acre if hay is baled

		man hours :		of hay cro	
State		·: Windrow:	Ua.I	ed III 1909	: Windrow
		: pick-up :	All	Stationary	: pick-up
		: baler 2/:		baling	: baling
	Hours	Hours	Percent	Percent	Percent
	(Martin arministra)	-	traditional necessary membrane address;	t	Company and the company of the compa
Maine	5.0	2.0	1.7	1.7	0
New Hampshire	5.0	2.0	3,0	2.7	0.3
Vermont	5.0	-	4.8	4.8	0
Massachusetts	5. 0 '	-	1.0	1.0	-O .
Rhode Island	5,0	***	•4	. 4.	0
Connecticut	5.0	Bragania .	.8	•8-	0
	•				
New England	5.0	2.0	2.5	2.4	.1
	:				
New York	4.5	1.5	7.0	6.7	. 3
New Jersey	5.0	2.0	8.0	6.4	. 1.6
Pennsylvania	4.5	1.5	9.0	8.4	.6
J					
Mid. Atlantic	4.5	1.6	7.0	6,6	_ •4
					*
Ohio .	4.5	1.5	9.0	8.2	. 8
Indiana	4.5	1.5	8.0	6.3	1.7
Illinois	4.5	1.5	18.0	11.9	6.1
Michigan	4.5	1.5	4.0	3.9	.1
Wisconsin	5.0.	1.5	2.0	1.9	.1
E. N. Central	4.5	1.5	7.8	6.8	1.0
Minnesota	5.0	1.5	3.0	2.7	•3
Iowa	4.5	1.5	5.0	4.0	1.0
Missouri	4.5	1.5	15.0	13.8	1.2
North Dakota	. 4.0	1.3	3.6	3.5	.1
South Dakota	4.0	1.3	2.4	2.3	.1
Nebraska	4.0	1.3	5.0	4.6	.4
Kansas	4.0	1.3	24.0	22.0	2.0
W. N. Central	4.5	1.4	7.a.	6,4	•7

⁻ Continued -

ALL HAY: Additional labor requirements per acre if hay is baled - Continued

-	. Additional	man hours	Percentag	e of hay cr baled in 19	op that 39 3/
State	Stationary				Windrow
•	baler 1/			Stationary	pick-up
	· balei 1/	baler 2/	baling	baling	baling
	Hours	Hours	Percent	Percent	Percent
	:	,	·		manuscription of an electrical set of
Delaware	5.0	*	5.0	5.0	.0 .
Maryland	: 5.0	2.0	7.0	6.6	0.4
Virginia	5,0,	2.0	9.0	8.5	• 5
West Virginia	: 5.0	2.0	5.0	4.2	.8
North Carolina	5.0	2.0	31.0	:28.2	2.8
South Carolina	5.0	2.40	35.0	29.0	6.0
Georgia	5.0	2.0	61.0	50.6	10.4
Florida	: 5.0	2.0	50.0	38.0	12.0
So. Atlantic	5.0	2.0	23.3	20.7	2.6
	•		•		
Kentucky	5.0	2.0	31.0	28.5	2.5
Tennessee	5.0	2.0	31.0	29.4	1.6
Alabama	5.0	2.0	50.0	42.0	8.0
Mississippi	5.0	-2.0	32.0	·26 . 2	5.8
.E. S. Central	5.0	2.0	34.0	30.6	3.4
•	<u> </u>				
Arkansas	5,0	2.0	43.0	37.4	E 6
Louisiana	5.0	2,0	29.0	23.8	5.6, 5.2
Oklahoma	4.0	1.2	50,0	46.5	3.5· .
Texas	4.0	1.2	55.0	48.4	6.6
Texas	4.0	± a fv	33.0	±0•±	0.0.
W. S. Central	412	1.5	47.3	42.1	5.2
				·····	
Montana	4.0	i.o.'	3.0	2.7	•3
Idano	5,0	1.5	1.3	1.2	.1
*** *	4.0	1.0	6,0	5.7	.3 .
Oclarade	4.5	1.2	6.0	Γ. Ο	.2
	4.5	1.2	37.0	28.5	8.5
Arisona	4.5	1.0	45.0	15.3	29.7
ma.1 1	5.0	1.2	5.0	4.2	.8
	4.5	1.0	13.0	3.7	4.3
1.5 / 4444				J • 1	
Mountain	; , , , , ,	1.0	7 0	6.4	0
Mountain	4.4	1.0	7.2	6.4	.8
	·				

ALL HAY: Additional labor requirements if hay is baled - Continued

	: Additional	man hours	Percentage	of hay crop	that
	: per acre b	aling with	was baled	in 1939 3/	·
State	:	: Windrow			: Windrow
	: Stationary	: pick-up :	: All :	Stationary	: pick-up
	: baler 1/	: baler 2/	baling :	balling	: baling
	: <u>Hours</u>	Hours	Percent	Percent	Percent
Washington	6. 0	1.5	15.0	14.2	0.8
Oregon	: 5.5	1.5	16.0	15.3	. 7
California	\$ 5.5	1.5	51.0	26.5	24.5
	· ·		n n e e e e	erapparent of fine to be a first constitution of	COMMISSION OF THE
Pacific	5.6	1.5	34.9	25.1	9.8
	\$				
United States	: 4.7	1.6	14.0	12.3	1.7

^{1/} From 4 to 6 man hours are usually required to bale and store an acre of hay when a stationary baling outfit is used. As most all of the hay that is baled in this way has been previously stored in stack or barn, the hours for baling and caring for the baled hay are additional to the acre requirements shown in the accompanying tables for loose hay.

^{2/} Windrow pick-up balers are increasing in popularity. This is not because of any saving in man hours per acre for handling hay that otherwise would be fed loose where stored, but rather to a saving in the hauling and baling operations when the hay is to be baled, or when the hay would otherwise be stored loose some distance from where it is to be fed, and to various conveniences and advantages in assembling and handling haying crews, and in storing the hay in restricted storage space. Regardless of whether the hay is stored in loose or baled form, it must be cut, gathered, hauled, and stored in barn or stack. This generally requires about the same number of man hours whether stored loose or after the pick-up baler. If it is windrow baled the field must be gone over with the baler and crew—and again to gather and haul the bales. This adds about 1 to 2 man hours to the acre requirements for handling the hay in loose form.

^{3/} Adapted from "Machine and Hand Methods in Crep Production." A. P. Brodell, Revised January 1942. It is believed that use of windrow pick-up balers has increased since this report was prepared.

ALSIKE CLOVER SEED: Labor requirements per acre 1/

	14	1929-38		
State :	Total 2	/: Preharvest :	Harvest	: average : yield : per acre
	Hours	Hours	Hours	Bushels
New York	8.0	0.7	7.3	1.9
Ohio Indiana Illinois	6.5 6.4 6.0	•7 •7 •6	5.8 5.7 5.4	1.6 1.4 1.4
Misconsin East Morth Central	6.7 6.5 6.4	•7 •7	6.0 5.8 5.7	1.7 1.8 1.6
Minnesota Iowa Missouri	644 5.8 6.0	•8 •6 •7	5.6 5.2 5.3	2.7 1.6 1.4
West North Central	10.8	2.8	5.5 8.0	2.5
Oregon	10.0	2.0	8.0	3.8
United States	6.9	0.9	6.0	2.0

^{1/} According to the 1940 census the following percentages of the total "clover seed" acreage was irrigated: Idaho, 93 percent, and Oregon, 80 percent. The data are not given separately for alsike clover seed.

^{2/} Baling of clover straw not included.

	:	Ha	V		: Red c	lover seed:	Timoth	y seed
		autoria de la compansión de la compansió	THE PROPERTY OF	:1929-38		:1929-38	Lan	:1929-38
	: Han h	ours per	acre	:average		:average:		:average
State	: :					re: yield :		
		Pre-	,	: per	_		(total)	: per
		harvest:				g :acre 2/	, , ,	: acre
	-							
	Hours	Hours	Hours	Tons	: Hour	s Bushels	Hours	<u>Busile 18</u>
Maine	8.6	•6	0 0	0.07	:		:	
Hew Hampshire	9.0	•8	8.0 8.2	•97	:			
Vermont	9.3			,1.15	•		*	
Hassachusetts	: 9.7	•8	8.5	1.21	•		•	
		•7	9.0	1.44	•		•	
Rhode Island Connecticut	: 9.7	•7	9.0	1.36	•		•	
	9.6	•6 -	9.0	1.40	<u>:</u>			
Hew England	9.2	•7	8.5	1.18	:		:	
New York	: 8.7	•7	8.0	1.21	: 7.2		:	
New Jersey	: 8.7	• 7	8.0	1.36	:		: ==	grap timel
Pennsylvania	: 8.2	.7	7.5	1.16	: 7.0		6.6	2.6
Mid.Atlantic	: 8.5	•7	7.8	1.19	: 7.0		6.6	2.6
TIT COLCUITOTO		• 1	1.00	7 47 7		1.00	:	
Ohio	· · · · · · · · · · · · · · · · · · ·	•7	7.0	1.02	· 5.8	1.0	6.7	3.0
Indiana	: 7.2		6.5	•97	: 5.6		6.3	3.0
Illinois	: 7.2	.6	6.6	1.09	: 5.3		: 6.3	2.5
Michigan	; 7.7°	•7	7.0	1.04	: 6.0		: -	und
Visconsin	: 8.4	.7	7.7	1.27	: 5.8		6.5	3.1
E.W.Central	: 7.8	.7	7.1	1.09	: 5.7		: 6.4	2.8
2001.0001101.01	:		1 0 35	100	:		:	
Hinnesota	: 3.8	.8	. 8.0	1.21	: 5.5	1.4.	: 6.8	3.7
Ioua	: 7.6	•6	7.0	1.12	: 5.0		: 6.0	3.7
Missouri	: 7.5	•7	6.8	•78	: 5.2		: 6.5	3.0
North Dakota	: 6.5	•5	6.0	.90	:		:	grap med
South Dakota	: 6.4	•4	6.0	.77	:		: "	8444
Nebraska	: 6.6	•4	6.2	.97	: 5.2	1.3	:	maj sain
Kansas	: 6.6	•4	G.2	,94	: 5.0		:	aw
W. H. Central	: 7.8	.7	7.1	1.00	: 5.1		: 6.2	3.6
	* ************************************				:		:	
Delaware	: 8.7	• 7	8.0	1.20	:		:	
Maryland	: 3.7	۰7	8.0	1.12	: 7.5		:	
Virginia	: 9.3	•8	8.5	1.00	: 7.5	1.1	:	
West Virginia	: 9.3	•8	8.5	•95	:,		:	
Horth Carolina	: 9.8	•8	9.0	•90			:	
Georgia	: 9.8	.8	9.0	•96	:		:	
So. Atlantic	: 9.2	.8	8.4	1.02	: 7.5	1.3	:	
	-							

⁻ Continued -

CLOVER AND THIOTHY: Labor requirements per acre 1/- Continued

	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1						acod
		Hay				lover seed:	'L'imoth	:1929 - 38
	27 3-	-	0.020	:1929-38	: Lan	:1929-38	Han	:average
	Man n	ours per	ac16	:average	: hours	:average	nours	e vield
State	: :	*		: yield	:per ac	re: yield r-: per	·(total)	e per
		Pre- :		: per		r-: per	: 3/	acre
+	:Total:	harvest:	Larves	t: acre	-	ig :acre 2/		
and the second s	:Hours	Hours	Hours	Tons	Hour	Name and Address of the Owner, where the Owner, which is	Hours	Bushels
			<u></u>			S to	:	
Kentucky	: 3.8	•7	8.1	•92	6.2		:	
Temnessee	: 8.8	•7	8.1	.91	• •••		:	
Alabama	. 9.8	•3	9.0	.81			:	
Mississippi	: 12.0	8	11.2	1.24			:	
E.S. Central	: 3.9	.7	-8.2	.92	: 6.2	1.0	•	
A Company				0.0	:		•	
Arkensas	: 9.8	.8	9.0				<u>:</u>	
,	:	· .		1.27	:			
Montana	: 8.8	21.8	;6.0	1.36				
Idaho	: 9.6	2.8	:6.•8			or of the second secon		
Wyoming	: 8.0	3.0	:5.0			and the second second		
Colorado	: 8.8	2.0	6.8	1.27		i i i i i i i i i i i i i i i i i i i	: -	
New Mexico	: 3.5	2.0	6.5° 7.0°	1.45			·	
Utah	: 9.5	2.5	6.5					
llevada .	: 9.0		6.3	1.29		3 4.6		
Mountain	: 8.9	۵.0.	. 0.00		:		: -	
	: 11.0	1.5	9.5	2.00	3 : . 9.	0 4/3.5	1.0	
Washington	· 11.0		7.5	e and		7 2.3	:	
Oregon	10.8		7.5	1.6	2: -	a dest (1.00 mas)		
California Pacific	10.6		8.8			8 2.5	:	
Pacific	- 10.0			1	:			3.3
United States	8.3	.7	7.6	1.1	2: 5.	8 1.1	: 6.3	0.0
OHILOGU DOC. OOD								

^{1/} Hay stored loose. See page 22 for data on baling hay. Averages for each State, including all clover and timothy hay grown alone and together. According to the 1940 census the following percentage of total hay acreage in each State was irrigated in 1939: Hontana, 72 percent; Idaho, 71 percent; Wyoming, 98 percent; Colorado, 95 percent; Hew Mexico, 57 percent; Utah, 98 percent; Hevada, 95 percent; Washington, 14 percent; Oregon, 50 percent; and California, 75 percent. In Idaho, 93 percent of the total "clover seed" acreage was irrigated, and in Washington and Oregon 80 percent was irrigated. The data are not given separately for red clover.

^{2/} Seed is usually obtained from "second crop". Labor previous to harvest has been included with the hay crop, except in irrigated areas, where the following hours for irrigation are included in the hours shown for harvesting: Idaho, 2.0; Washington, 1.8; and Oregon, 1.7.

^{3/} These estimates include about 0.3 of an hour of work previous to harvesting the seed crop in each State.

^{4/} Estimated yield.

. COW PEAS: Labor requirements per acre 1/

			TTo					1	
			Нау	-1070 M	mer .			ed	47700 000
State	Man	hours	per acre	:1930-39		Man ho	urs per	acre	:1329-38
o ta te		D~-		. average	:		Disaster and the second		average
		Pre-	t . Howeve of	: yield	•		Pre-	Tioners	: yield
	:Hours								
	· Hours	Hours	Hours	Tons	:	Hours	Hours	Hours	Bushels 2/
New Jersey	: 18.0	10.0	0,8	1.37	•				
Pennsylvania	: 18,5	10.0	. ,	1.49	•				
Mid. Atlantic	: 18.0	10.0		1,43	: :				
	:				-:			•	
Ohio	: 15.5	8.0	7.5	1.17	:				
Indiana	: 12.5	5.5		1.22	:	17.0	7.0	10.0	8.8
Illinois	: 11.5	5.0		1.00	:		6.0	10.0	8.0
E.N.Central	: 12.0	5.0	7.0	1.03	:		6.0	10.0	8.1
90 mg g	: ·				:				
Missouri	: 12.0	530		.96	:		7.0	8.0	7.1
Kansas	: 7.5	3.0		.97	:		3.8	7.0	6.3
W.N.Central	: 12.0	5.0	7.0	,96	:	15.0	7.0	8.0	7.0
Dallama	3 7 7 7	70.0			. :		. 20.0		77.0
Delaware	: 17.5	10.0	· = -	1.11	:	· ·	12.0	53.0	11.0
Maryland Virginia	: 18.5	10.0		1.25	:		-12.0	39.0	8.0
West Virginia	: 18.5 : 21.0	10.0		.98 1.26	:		12.0	43.0	9.0
North Carolina	: 22,0	14.0		.79	:		18.0	37.0	7.7
South Carolina	: 21.0	13.0		.74	:		17.0	29.0	5.7
Georgia	: 21.0	13.0		.66	•		18.0	30.0	5.9
Florida	: 21.0	13.0		.67	:		18.0	42.0	8.8
So. Atlantic	: 21.0	13.0		.75	_ <u>:</u>		17.0	32.0	6.2
	3		- 5,0	. ` `	:		27.00	0,000	
Kentucky	: 20.0	10.0	10.0	1.11	:		12.0	41.0	8.6
Tennessee	: 18.0	10.0		.85	:		12.0	27.0	5.4
Alabama	: 22.0	13.0	9.0	.78	:		16.0	29.0	5.7
Mississippi	: 22.0	11.0		.98	:		15.0	28.0	5.8
E.S.Central	: 21.0	11.0	10.0	, 90	:	44.0	15.0	29.0	5.8
	:				:				
Arkansas	: 21.0	11.0		.92	:		14.0	33.0	6.9
Louisiana	: 23.0	12.0		1.06	:		15.0	36.0	7.6
Oklahoma	: 14.0	8.0		.76			11.0	32.0	6.4
Texas	: 12.5	7.5		.63	<u>:</u>	44,5	11.5	33.0	7.0
W.S.Central	: 18.0	10.0	8.0	.87	:		13.0	33.0	7.0
United States	: 19.0	11.0	8.0	.84	:		14.0	29.0	6.4

^{1/} Hay stored loose. See page 22 for data on hay baling.
2/ Labor requirements assume that cow pea seed was harvested with a binder or mower and thresher in Indiana, Illinois, Missouri, and Kansas, and that about 80 percent of the seed harvested in the remaining States was picked by hand. An average worker can usually pick 175 pounds of pods per 10-hour day, which will turn out 120 pounds, or 2 bushels of peas. A worker will pick, thresh, clean and store about 1 3/4 bushels of peas in a 10-hour day,

GRAIN HAY: Labor requirements per acre 1/

		Man	hours per a	hours per acre				
State .	Total	:	Preharvest	: :	Harvest	average yield per acre		
	Hours		Hours	,	Hours .	Ton		
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New England	21.0 21.0 21.0 20.0 13.5 18.5		10.0 10.0 10.0 9.5 9.5 9.5	-	11.0 11.0 10.5 9.0 9.0	1.92 1.88 1.78 2.07 1.76 1.75		
New York	16.6	`	8.6		8.0	1.58		
New Jersey	14.8		6.8		8.0	1.52		
Pennsylvania	14.6		7.0		7.6	1.15		
Middle Atlantic	16.0		8.1		7.9	1.47		
Ohio	12.5		6.0		6.5	.81		
Indiana Illinois	11.3		5.0		6.3	.75		
Michigan '	10.5		4.5 6.5		6.0	.73		
Wisconsin '	14.0		6.9		6.5 7.1	.85 1.03		
E. N. Central	12.6		6.0		6.6	.89		
Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	10.4 11.0 12.0 8.8 3.0 7.9 8.3		3.4. 4.0 6.0 2.8 2.5 2.4 2.3		7.0 7.0 6.0 6.0 5.5 5.5	.84 .96 .66 .78 .62 .72		
W. N. Central	9.7		3.5		6.2	.75		
Delaware Maryland Virginia West Virginia North Carolina South Carolina Georgia	15.0 15.5 16.0 17.0 18.5 13.5		7.0 7.5 9.0 10.0 10.0 9.0		8.0 3.0 7.0 7.0 8.5 8.5 8.0	1.34 1.48 .81 .77 .98 .74		
So. Atlantic	17.5		9.6		7.9	86		

GRAIN HAY: Labor requirements per acre 1/ - Continued

		:		
	i N	an hours per	acre	1930–39
State .	Total:	Preharvest	Harvest	average yield per acre
	: Hours	Hours	Hours	Tons
Kentucky Tennessee Alabama	14.5 14.5 18.5	7.0 7.2 10.0	7.5 7.3 8.5	.80 .69 .80
Mississippi	: 19.0	10:0	9.0	•92 ·
E. S. Central	15.3	7.7	7.6	.76
Arkansas Louisiana Oklahoma Texas W. S. Central	16.0 18.5 9.0 10.0	8.3 10.0 3.8 3.5	7.7 8.5 5.2 6.5	.69 .39 .79 : .86
Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	7.5 10.8 8.5 9.5 12.0 14.5 14.0	3.0 4.8 4.0 4.0 6.0 8.5 8.2 3.2	4.5 6.0 4.5 5.5 6.0 6.0 5.8 5.8	.62 1.21 .66 .88 1.16 1.47 1.11
Mountain	9.5	4.4	5.1	.81
Washington Oregon California Pacific	10.5 10.8 11.0	4.5 4.8 4.2	6.0 6.0 6.8	1.32 1.30 1.39
United States	11.2	4.8	6.4	•98

l/ Grains cut green for hay and stored loose. See page 22 for data on baling
hay. According to the 1940 census, the percentage of the total State acreage
that was irrigated in 1939 was as follows: Montana, 9 percent; Idaho, 15 percent; Tyoming, 14 percent; Colorado, 28 percent; New Mexico, 39 percent;
Arizona, 71 percent; Utah, 68 percent; Nevada, 90 percent; Washington, 4 percent;
Oregon, 10 percent; and California, 18 percent.

LESPEDEZA: Labor requirements per acre 1/

		Hay	·		See	ed
	Man	ncurs per	0.000	: 1930-39	Han hours	: 1929-38
State	1/14<-11 1	icars ber	acre	: average:	per acre	: average
	;	: Pre-		: yield :	for	: yield
•	Total	:harvest	Harvest	:per acre	: harvest	: per acre
	Hours	Hours	Hours	Tons	Hours	Pounds
Indiana	:				8.0	3/ 175
Illinois	7.5	•5-	7.0	2/ .92	7.5	2/ 176
E. N. Central	7.5	•5	7.0	.92	7:8	175
				•0~		170
Missouri	7.5	7	6.8	2/ .85	8.0	2/175
Kansas					7.5	3/ 185
W. N. Central	7.5	.7	6.8	.85	8.0	178
				•		
Virginia	8.4	1.0	7.4	2/ .94 :	8.5	2/ 256
North Carolina	10.0	110	-9,0	•93	9.0	156
South Carolina	9,0	1.0	8,0	.73	9.5	3/ 200
Georgia	10.0	1.0	9.0	•87	9.5	3/ 200
So. Atlantic	9,4	1.0	8.4	,90	9.1	183
	:					
Kentucky	9,2	.7	8.5	1.06	9.0	168
Tennessee	9.0	•7	8.3	.95	9.0	163
Alabama	: 10.0	1.0	9.0	.82	9.5	3/200
Mississippi	11,0	1.0	10.0	1.11	9.0	96
E. S. Central	9,3	.7	8.6	1,00	9.0	168
	70.6	7.0	0.04	0.5		/
Arkansas	10.0	1.0	9.0	.93	9.5	3/ 175
Louisiana	11.0	1.0	10.0	1.10	9.0	105
W. S. Central	10.2	1.0	9,2	• •98	9.4	161
United States	8.9	8	8.1	•96	8.7	175
* ,	0.0		001			

^{1/} Hay stored loose. See page 22 for data on hay baling. 2/ Short-time averages. 3/ For 1939 only.

SOY BRANS: Labor requirements per acre 1/

	111111	F	lay	-	:	• Ве	ans	
	: Man h	ours per	ממס כי	:1930-39	i Man h	ours: per	2000	:1929-38
State	:		acte	average	-		acie	_:average
		Pre-:		: yield		Pre- :		: yield
	:Total:	harvest:	Harvest	:per acre	:Total:	harvest:	Harves'	t:per acre
	:Hours	Hours	Hours	Tons	: Hours	Hours	Hours	Bushels
	:				:	:		
New York	: 19.0	11.0	0.8	1.54	: 19.0	,13.0	6.0	2/14.9
New Jersey	: 18.0	10.0	8-0	1.44	: 19.0	12.0	7.0	2/17.0
Pennsylvania	: 18.0	10.0	8.0	1.48	: 17.0	-11.0	6.0	2/16.3
Mid. Atlantic	: 18.0	10.0	.8.0.	1.48,	: 18.0	12,0	6.0	16.4
	:				:	:		411 CT
Ohio	: 16.0	8.0	8.0	1.31	: 14.0	- 9 .0	= 5 . 0.	17.4
Indiana	: 12.5	5.5	7.0	1.34	: 11.0	7.0	4.0	16.2
Illinois	: 12.0	5.0	7.0	1.40	: 9.5	6.0	3.5	18.4
Michigan	: 1,3.5	6.0	7.5	1.31	: 12.5	7.5	5.0	12.4
Wisconsin	: 13.5	6.0	7.5	1.43	: 12.5	7.5	5.0	12.0
E.N.Central	: 13.0	6.0	7.0	1.37	: 11.0	7.0	4.0	17.8
the state of the state of	:		278		:			
Minnesota	: 13.0	5.5	7.5	2/1.70	: 11.0	7.0	4.0	2/.17.0
Iowa	: 12.0	5.0	7.0	1.37	: 10.0	6.0	4.0	16.4
Missouri	: 12.0	5.0		1.08	: 11.5	7.0	4.5	8.0
Nebraska .	:, 9.0	3.0	5.0	,	.: — ·	-		3 M (4 H) 🗝 (4)
Kansas	: 75	3.0	4.5		: 6.8	3:8	3.0	7.5
W.N.Central	: 12.0	-5.0	7.0	1.33	: 10.0	6.0	4.0	13.5
Art i reference comment	* · · · · · ·		*	a a minima	•			•
Delaware	: 18.0	10.0	8.0,		: 19.0	12.0	7.0	13.4
Maryland	: 18.0	10.0	8.0	and the second s	: 19.0	12.0	7.0	12.5
9	: 18.0	10.0			: 19.0:	•	7.0	12.0
9	: 21.0	12.0~	-		: 22.0°		8.0	11.6
North Carolina	: 24.0	14.0	10.0		: 24.0	18.0	6.0	12.4
South Carolina	: 22.0	13.0			23.0		6.0	6.4
	: 22.0	13.0	9.0	.86	: 24.0	18.0	6.0	5.8
So. Atlantic	: 22.0	13.0	'9.0	1.03	22.0	16.0	6.0	11.8
77 1	•	30.0	70.0	7.00	:	70.0	0.0	70:0
Kentucky	: 20.0	10.0	10.0	1.22	: 18.0	12.0	6.0	10.2
Tennessee	: 19.0	10.0	9.0	.98	: 19.0	12.0	7.0	7.3
Alabama	: 22.0	13.0	9.0	.92	: 23.0	16.0	7.0	5.7
	23.0	11.0	12.0		: 21.0	15.0	6.0	8.2
E.S.Central	21.0	11.0	10.0	1.07	: 20.0	14.0	6.0	7.8

⁻ Continued -

SOTTBEANS: Labor requirements per acre 1/ - Continued

		77-					73	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	. Ha	У		_ ^_		Be	ans	
	: Man he	ours per	0.000	:1930-39	: 1/	for to	mina man	0.000.0	:1929-38
State	Man III	om a bet	acre	:average	177		ours per	a cr.e	:average
		Dane							
		Pre- :		: yield	:		:Pre-:		: yield
	:Total:	narvest:	Harvest	:per acr	e:To	tal:	harvest:	Harvest	:per acre
	: Hours	Hours:	Hours	Tons	: Ho	ours	Hours	Hours	Bushels
	:	:			:				
Arkansas	: 20.0	11.0	9.0	•98	: 2	0,0	14.0:	6.0	8.6
Louisiana	: 24.0	12.0.	12.0	1.16	: 2	22:0	15.0:	7.0	.: 8.0
Oklahoma	: 13.0	18:0:	5.0	.81	:]	16.0	11.0	5.0	8.4
Texas:	:_12.0	7.5:	4.5	2/3.62	: 1	15.0	10.5	4.5	2/7.6
W. S. Central	: 21.0	11.0	10.0	1.01	: 2	0.0	14.0	6.0	8.3
	:				:			1.00	
United States	: 16.0	8.0.	8.0	1.25	:]	12.0	8, 0	4.Q	15.7

¹/ Hay stored loose. See page 22 for data on hay baling. Soy beans for hay are planted mostly solid in the Corn Belt and mostly in rows in the South. If the crop is for beans, about one-half is seeded in rows in the Corn Belt, and all are seeded in rows in the South. Most of the crop is harvested with combines, although old methods are used to some extent in some areas. It takes from $2\frac{1}{2}$ to $3\frac{1}{2}$ hours, on the average, to combine and haul to storage one acre of beans. In most States it takes from 8 to 12 hours per acre to cut with binder, thresh, and haul to storage.

. .

^{2/} Short-time average.

SWEET CLOVER: Labor requirements per acre 1/

S:	:		Hay		_:	Seed			
State	Man h	ours per		:1930-39 :average		Man h	ours per	racre	:19 29 -38 :average
		Pre- :		: yield	2		Pre-		: yield
									eper acre
	: Hours	Hours	Hours	Tons	•	Hours	Hours	Hours	Bushels
0) :	:	* 0			6	3	:		0.5
Ohio	: 8.0	1.0	7.0	1.06		8.0	1.0	7.0	2.5
Indiana	: 8.0	1.0	, 7.0	1.05		8.0	1.0	7.0	2.4
Illinois	: 7.6	1.0	6.6	1.20	1	7.6	1.0	6.6	2.6
Michigan	8.5	1.0	. 7.5	1.12		8.0	1.0	7.0	2/3.0
	<u>9.0</u>	1.0	.8.0	1,45		8.0	1.0	7.0	2/3.4
E. N. Central	8.5	1.0	7.5	1.22	- 2	7.8	1.0	6.8	2.6
	:				,				**
Minnesota	8.5	1.0	7.5	1.18		7.8	1:0	6.8	4.0
Iowa	: 7.0	•7	6.3	1.07	:	7.0	.7	6.3	2.7
Missouri	: 7.5	•7	6.8	1.02	:	7.5	•7	6.8	2.4
	: 7.0	•8	6.2	1.04	:	7.0	•8	6.2	3.2
South Dakota	: 6.8	•8	6.0	•86		7.0	. 8	6.2	2.8
Nebraska	: 7.0	.8	6.2	. •88	:	7.0	•8	6.2	2.8
Kansas	: 7.0	.8	6.2	96	:	7.0	.8	6.2	2.5
W. N. Central	7.5.	.9	6.6	1.07	-	7.3	.8	6.5	3.3
	•				:	;			
Montana	: 7.5	1.2	6.3	•90	:	8.0	1.2	6.8	2.4
Wyoming	8.0	2.0	6.0	1.16	:	8.0 ′	1.5	6.5	2/3.3
	8.0	2.0	6.0	1,05		8.0	1.5	6.5	4.1
Mountain	7.7	1.5	6.2	.97	:	8.0	1.3	6.7	3,0
United States	7.7	1.0	6.7	1.09	4	7.4	.9	6.5	3.2

^{1/} Hay stored loose. See page 22 for data on hay baling. According to the 1940 census, the following percentage of the State total sweet clover hay acreage was irrigated in 1939: Montana, 14 percent; Wyoming, 77 percent; Colorado, 90 percent. The percentage of the seed acreage that was irrigated was 41 in Montana, 98 in Wyoming, and 99 in Colorado. Preharvest labor was split about half and half between hay and seed.

^{2/} Short-time average.

SWEET SORGHUM HAY: Labor requirements per acre 1/

Man hours per acre						
State Total harvest Harvest per acre			Man hours pe	er acre		
Total Darvest Harvest Per acre	State	•	e Theodor	•		
Hours Hours Hours Tons				· Harvost	•	
Tillinois 16.0 6.0 10.0 2/2.50				The second second second second second		
Illinois			HOUTS	Hours	Tons	
North Dakota			6.0	10.0	2/2.50	
Hissouri	Iowa	: 17.0	6.0	11.0	3.06	
North Dakota	Missouri	: 17.0	7.0		1.72	
South Bakota 11.0	North Dakota	: 11.0				
Nebraska	South Dakota	: 11.0				
No. Central 12.0 4.0 8.0 1.68 W. N. Central 12.1 4.2 9.9 1.63	- Nebraska	: 12.0	4.0			
Virginia 22.0 12.0 10.0 1.50 North Carolina 25.0 14.0 11.0 1.58 South Carolina 25.0 14.0 11.0 1.62 Georgia 24.0 14.0 10.0 1.21 So. Atlantic 24.3 13.9 10.4 1.40 Kentucky 22.0 10.0 12.0 2.40 Tennessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 1.00 1.39 Louisiana 26.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10		:12.0	4.0	8.0		
North Garolina 25.0 14.0 11.0 1.58 South Garolina 25.0 14.0 11.0 1.62 Georgia 24.0 14.0 10.0 1.21 So. Atlantic 24.3 13.9 10.4 1.40 Kentucky 22.0 10.0 12.0 2.40 Temmessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 <td>W. N. Central</td> <td>12.1</td> <td>4.2</td> <td>7.9</td> <td>1,63</td> <td></td>	W. N. Central	12.1	4.2	7.9	1,63	
North Garolina 25.0 14.0 11.0 1.58 South Garolina 25.0 14.0 11.0 1.62 Georgia 24.0 14.0 10.0 1.21 So. Atlantic 24.3 13.9 10.4 1.40 Kentucky 22.0 10.0 12.0 2.40 Temmessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 <td>Vincini</td> <td>• 22 0</td> <td>70.0</td> <td>7.0.0</td> <td>7 50</td> <td></td>	Vincini	• 22 0	70.0	7.0.0	7 50	
South Carolina 25.0 14.0 11.0 1.62 Georgia 24.0 14.0 10.0 1.21 So. Atlantic 24.3 13.9 10.4 1.40 Kentucky 22.0 10.0 12.0 2.40 Temmessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 6.0 .85						
Georgia						
So. Atlantic 24.3 13.9 10.4 1.40 Kentucky 22.0 10.0 12.0 2.40 Tennessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 6.0 .85						
Kentucky 22.0 10.0 12.0 2.40 Tennessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 5.0 .85						
Tennessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 12.0 12.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 86 New Mexico 10.5 4.5 6.0 80 Mountain 11.7 5.7 5.0 85	bo: Rozaliote	· ~= ~	10,3	10.4	Teac	
Tennessee 22.0 10.0 12.0 1.94 Alabama 26.0 14.0 12.0 1.41 Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 12.0 12.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 86 New Mexico 10.5 4.5 6.0 80 Mountain 11.7 5.7 5.0 85	Kentucky	22.0	70.0	12.0	2,40	
Alabama : 26.0	•					
Mississippi 26.0 14.0 12.0 1.69 E. S. Central 24.0 12.0 12.0 1.90 Arkansas 25.0 14.0 11.0 1.39 Louisiana 26.0 14.0 12.0 1.64 Oklahoma 17.0 10.0 7.0 1.16 Texas 15.0 8.0 7.0 1.14 W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 86 New Mexico 10.5 4.5 6.0 80 Mountain 11.7 5.7 5.0 85						
E. S. Central : 24.0 12.0 12.0 1.90 Arkansas : 25.0 14.0 11.0 1.39 Louisiana : 26.0 14.0 12.0 1.64 Oklahoma : 17.0 10.0 7.0 1.16 Texas : 15.0 8.0 7.0 1.14 W. S. Central : 15.8 8.7 7.1 1.16 Colorado : 12.0 6.0 6.0 86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85						
Louisiana : 26.0 14.0 12.0 1.64 Oklahoma : 17.0 10.0 7.0 1.16 Texas : 15.0 8.0 7.0 1.14 W. S. Central : 15.8 8.7 7.1 1.16 Colorado : 12.0 6.0 6.0 .86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85	* *					
Louisiana : 26.0 14.0 12.0 1.64 Oklahoma : 17.0 10.0 7.0 1.16 Texas : 15.0 8.0 7.0 1.14 W. S. Central : 15.8 8.7 7.1 1.16 Colorado : 12.0 6.0 6.0 .86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85		:				
Oklahoma : 17.0 10.0 7.0 1.16 Texas : 15.0 8.0 7.0 1.14 W. S. Central : 15.8 8.7 7.1 1.16 Colorado : 12.0 6.0 6.0 .86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85		: 25.0	14.0	11.0	1.39	
Texas : 15.0 8.0 7.0 1.14 W. S. Central : 15.8 8.7 7.1 1.16 Colorado : 12.0 6.0 6.0 .86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85	Louisiana	26.0	14.0	- 12.0	1.64	
W. S. Central 15.8 8.7 7.1 1.16 Colorado 12.0 6.0 6.0 .86 New Mexico 10.5 4.5 6.0 .80 Mountain 11.7 5.7 5.0 .85	Oklahoma		10.0			
Colorado : 12.0 6.0 6.0 .86 New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85				7.0		
New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85	W. S. Central	: 15.8	8.7	7.1	1.16	
New Mexico : 10.5 4.5 6.0 .80 Mountain : 11.7 5.7 5.0 .85	Colorado	: 72.0	6.0	6.0	- 86	
Mountain : 11.7 5.7 5.0 .85						
Instal Choice . 14 O C 7 FF 5 44		:				
United States: 14.0 6.3 7.7 1.44	United States	: 14.0	6.3	7.7	1.44	

^{1/} Hay stored loose. See page 22 for data on hay baling. 2/ Yields are for 1940. Percentage of State total acreage that was irrigated in 1939, according to 1940 census: Texas, 2 percent; Colorado, 6 percent; and New Mexico, 10 percent.

VELVET BEANS: Labor requirements per acre 1/

State	Total	Pre-: harvest:	Harvest Hours	1929-38 average yield per acre 2/ Pounds
South Carolina Georgia Florida South Atlantic	42 37 31 37	10 10 10	32 27 21 27	997 8 <i>3</i> 7 653 822
Alabama Mississippi East South Central	36 43 37	10 10 10	26 33 27	797 1,058 833
Louisiana United States	37 37 37	10 10	27 27	802

1/ For velvet beans grown alone. Approximately 85 to 95 percent of the acreage is interplanted with other crops, especially corn. Probably 90 to 95 percent of the acreage is grazed.

The labor shown for harvest represents the hours that would be required if the total yield of beans was picked and threshed. However, on the average only about 1 to 22 bushels of beans per acre are harvested. From 90 to 100 pounds of pods are required to produce one bushel of shelled beans (60 pounds).

If harvested for hay, about 8 hours per acre are required for harvesting and storing the hay loose. See page 22 for data on hay baling,

2/ Yields refer to the entire production of beans in the hull, whether grazed or harvested otherwise.

WIID HAY: Labor requirements per acre 1/

		i i		
•	Man	hours per	acre	: 1929-38
			4010	: average
State	,	Pre- :		: yield
	Total:	harvest ::	Harvest	: per acre
- · · · · · · · · · · · · · · · · · · ·	: Hours	Hours :	Hours	Tons
	:		***************************************	
Maine	6.6	· ,——	6.6	•93
New Hampshire	: 6.6		6.6	•90
Vermont	: 6.8	-	6.8	•90
Massachusetts	6.6	· .	6.6	.93
Rhode Island	6.4	-	6.4	.85
Connecticut	6.6		6,6	1.08
New England	6.6		6.6	•95
	•	b		•00
New York	6.8		6.8	•90
New Jersey	6.8		6.8	1.24
Pennsylvania	6.6		6.6	.79
Middle Atlantic	6.8		6.8	.94
11200000 11000011010				•01
Ohio	6.6		6.6	•72
Indiana	6.4		6.4	.88
Illinois	6.2	-	6.2	.82
Michigan	6.4	braum.	6.4	.81
Wisconsin	6.4		6.4	.98
East North Central	6.4		6.4	.95
	•		0 - 2	
Minnesota	6,4	-	6.4	•90
Iowa	: 5.4	-	5.4	.98
Missouri	: 5.6	a-ama	5.6	•94
North Dakota .	: 4.8	p-g-740	4.8	.71
South Dakota	: 4.4		4.4	•52
Nebraska	: 4.6		4.6	.63
Kansas	5.4		5.4	•85
West North Central	5,0		5.0	.71
Mond indigit deligitat	• 030		0.0	B /
Delaware	6.8		6.8	1.05
	: 6.6	Street S	6.6	.86
	• 6.6	-	6.6	.76
The same of the sa	6.6	-	6.6	.76
	8.0	-	8.0	.95
	8.0	bin-a	8.0	•76··
Georgia	8.0		8.0	.78
Florida	7.6		7.6	.68
South Atlantic	7.6		7.6	.83
South Atlantic	1.0		7.0	•03

WILD HAY! Labor requirements per acre 1/- Continued

		in a second	n -	and the second second second	•
**************************************	Man h	ours per a	acre	: 1929-38 : average	
State ·	: :	Pre-	•	: yield	
		harvest	Harvest	:-per acre	
					
	: Hours	Hours	Hours	Tons	
	:		5	·	
Kentucky	: 6.8	-	6.8	•90	
Tennessee	: 7.0		7.0	•75	
Alabama	: 8.2		8.2	.80	
Mississippi	: 8.2		8.2	•98	
East South Central	: 7.7		7.7	.87	
	:	-			
Arkansas	: 8.0		8.0	,94	
Louisiana	: 8.2		8.2	1.00	
Oklahoma	: 5.4	·	5.4	.85	
Texas	: 5.2		5.2	.90	
West South Central	5.8	\$100000	5.8	.88	
Mego podom denoral	- 0.00		, 5,0	•00	
Montana	5.6	1.0	4.6	•76	
Idaho	5.8	1.2	4.6	.96	
Wyoming	- •	i.2	4.6	.68	
	5,8				
Colorado	: 6.6	1.2	5.4	.92	
New Mexico	: 5,7	•,5	5.2	.74	
Arizona	5.6	.4	5.2	98	
Utah	: 6.6	1,2	5.4	1.04	
Nevada	: € <u>1</u>	7.42	5.2	.98	
Mountain	<u>6.0</u>	I.L	4.9	.83	
	:		;		
Washington	: 5.5	• 3	5.2	1.18	
Oregon :	: 5,4	1.0	4.4	1.00	
California	5.7	5	5,2	1.30	
Pacific	: 5 * 5	.7	4.8	1.05	
e e e e e			1 10		
United States	5,3	.2	5.1	•76	

^{1/} Hay stored loose. See page 22 for data on hay baling. According to the 1940 census, the following percentage of the State total acreage was irrigated in 1939: Montana, 50 percent; Idaho, 75 percent; Wyoming, 85 percent; Colorado, 85 percent; New Mexico, 27 percent; Arizona, 25 percent; Utah, 85 percent; Nevada, 90 percent; Washington, 10 percent; Oregon, 82 percent; California, 50 percent.

APPLES: Labor requirements per acre 1/

			Bearin		:		earing chards	
	Man h		orchard	<u> </u>	Number:			-
State	Man h	ours per	acre	:1938-41	of:	of :	man	
	: :			:average :	trees:	trees	hours	,
•	: :	Pre-	:	: yield :	per :	per :	per :	
	: Total:	harvest:	Harvest	:per acre:	acre:	acre	acre	
	: Hours	Hours	Hours	Bushels	Trees	Trees	Hours	
	:							
	: 110	50	60	80	40	48	25	
	: 105	50	55	7 3	40	48	25	
. 01011	: 110	50	60	82	40	48	25	
	: 120	50	70	. 91	40	48	25	
	: 110	50	60	80	40	48	25	
Connecticut New England	140 118	50 50	90 68	121 90	40 40	48 48	25	
Mew migratio			00	30	40	#0	~0	17
New York	105	45	60	117	36	42	28	
New Jersey	125	55	70	143	55	60	30 ·	1
Pennsylvania	105	55	50	99	38 38	45	28	
Mid. Atlantic	106	50	56	111	38	44	28	- 20
MILES HOLGHOLD								
Ohio	9 0	50	40	86	38	45	28	1
	90	50	40	85	40	46	25	-
	85	50	35	82 82	44	50	25	
	85	45	40	85	38	45	25	
Wisconsin	80	45	35	76	60	65	25	
E.N.Central	87	48	39	84	41	41	26	
- :	:							
	95	45	50	112	55	60	22	
	9,0	45	45	86	44	50	25	
	85	55	30	53	44	50	30	
	65	45	20	36	60	65	25	
	65	45	20	35	60	65	25	
	95	45	50	97	46 .	50	30	
Kansas W.N.Central	85	45	40	82	46	50	30 27	
w.w.central	87	50	37	71	46	52	- 61	
Delaware	110	55	55	113	48	54	30	-
Maryland	95	50	45.	113	46	52	- 28	
Virginia	100	50	50	102	40	46	28	
West Virginia	95	50	45	71	38	45	28	
North Carolina	85	55	30	64	45	50	30	
South Carolina	80	55	25	50	45	50	30	
Georgia	90	55	35	72	50	55	30	
Florida	80	50	30	65	60	65	30	
So. Atlantic	95	51	44	85	42	48	29	

APPLES: Labor requirements per acre 1/ - Continued

	1.0		Bearin	~			Mon	h o s		.
			orchar			:			aring a rds .	
•				· us	:Number	NEW YEAR	mber	CHE	Total	
State	Man ho	urs per	acre	:1938-41	of	•	nber of	•		
State :				-	•			:	man	
	:	1.5	:	:average	: trees		rees	:	hours	
*	m . t T	Pre-	: - 77: 1	: yield	: per		er 🕖	:	per	
				t:per acre			cre	<u>:</u>	acre	
•	Hours	Hours	Hours	Bushels	Trees	<u> </u>	rees		Hours	
:						2				
Kentucky :	80	50	30	4 6	4 6		52		25	
Tennessee :	- 0	50	30	47	46		52 .	٠	25	
Alabama :	80	55	25	43	45		50		30	
Mississippi :	85	55	30	48	45		50		30	
E.S.Central :	80	51	29	46	46		51	,	26	
•			and the second							
Arkansas :	80	55	25	38	46	~	52		25	
Louisiana :	80	55	25	40	45	"	50		30	
Oklahoma :	70	50	20	35	46		52		20	
Texas :	75	50	2.5	41	50		55		20	
. W.S.Central:	78	54	24	38	46	:	52		23	
						;				
Montana	115	60	55	111	60		65		50	
Idaho :	345	210	135	290	55		60		80	. :
Wyoming	95	5 5	40	82	60	•	65		28	! '
Colorado :	210	115	95	190	60		65		65	
New Mexico :	125	60	65	132	60		65		30	
Arizona	95	55	40	80	60		65		35	
Utah :	155	80	75	158	65		70		30,	
Nevada	100	55	45	85	60		65		35	
Mountain :	202	113	89	183	57_		65		43	
7.										
Washington :	540	260	280	438	60		65		100	-
Oregon :	280	140	140	216	55		60		7 5	
California :	290	180	110	252	60		65		50	<u> </u>
Pacific	422	216	206	345	.59		64		78	, '
										•
United States:	123	65	58	108	41		48		29	1 -

^{1/} Harvest labor includes time for packing apples in central packing houses, as well as on the farm. It was estimated that about 25 percent of the apples in Montana, Idaho, Colorado, New Mexico, and Utah are packed in central packing houses. In Washington and Oregon about 60 percent, and in California, 20 percent, are handled in central packing houses. In the new England States it generally takes about 0.75 hour to pick, pack, and market one bushel of apples. In the East South Central States and the West South Central States, the average per bushel ranges generally from 0.60 to 0.64 hour; in the remaining States the average is from 0.40 to 0.50 hour per bushel.

APRICOTS: Labor requirements per acre 1/

4	APRICOTS	Labor	require	nenus per	acro ±	And the second s	an aba nde
	:	Bes.	ring orch	ards			ng or chards
State				yield:c	of trees	Number : of trees: per : acre :	Total man hours per. acre
	Hours	Hours	Hours	Bushels	Trees	Trees	Hours
*	;	40	50	85	80	90	20
Illinois Nebraska Kansas	90 : 82 : 70 - 74	40 * 40 - 40	42 30 34	70 40 51	80 80 80	90 90 90	20 20 20
W.N.Central Oklahoma Texas W.S. Central	50 55 53	30 30 30	20 25 23	30 35 33	80 80 80	90 90 . 90	25 20 22
Idaho Colorado Utah Mountain	: 170 : 195 : 170 : 175	100 110 90	70 85 80 79	140 180 160	80 80 30 80	90 90 90 90	40 45 35 39
Washington Oregon California Pacific	: 205 : 185 : 210 : 210	120 100 115 115	85 85 95 95	2/173 166 2/127 129	90 60 75 75	100 70 80 81	40 40 45 44
United States	: 207	. 114	93	129	76	83	41

^{1/} Although the census reports apricot production in most States, the commercial production is concentrated in California and Washington. About 85 percent of the Cashington production is sold in fresh state, and about 68 percent of the California production is sun dried and 32 percent is canned and sold fresh.

Labor estimates for States in addition to Mashington and California that reported more than 100 acres each in 1939 are shown here. It usually takes from 0.5 to 0.6 of an hour to pick, pack, and haul a bushel of apricots sold fresh or canned. In California, where a large percentage of the crop is sun dried, the average is between 0.7 and 0.8 of an hour per bushel.

AVOCADOS: Labor requirements per acre 1/

			-		-		
		Ве	earing or	chards		:Nonbear	ing orchards
State	Man h	ours per		1938-41 average		: :Number	: Total
ŧ ;		Pre- harvest	:		: per	: per : acre	: hours :per acre
	Hours	Hours	Hours	Pounds	Trees	Trees	Hours
Florida	70	30	40	2,780	. 70	75	25
California	85	55	30	1,980	70	75	50
		der die Gestalle und derseige sogs			- 1		-
United States	84	53	31	2,176	70	75	37

^{1/} It requires about 1.5 hours to pick and haul 100 pounds of avocados. The packing is done in packing plants and requires additional labor. For converting number of trees to acres it is assumed that young orchards have a fuller stand of trees than have the older orchards.

<u> </u>	:	The state of the s	Beari	ng orchard	.s				earing
And the second of the second		The state of the last of the l				7	_	orch	The second named in column 2 is not a column 2 in colu
State		Man hours	Control Spirite 1 St.		.		Num-		
, 50406		per acre	,	: Yield :		-: centage:			:Total
		nia (i		per		of crops		of	:hours
	Total:	Pre- :	Har-		type	•			: per
:	* TOOUT?	harvest:					-	_	:acre
	Hours	Ilman a		Daniela		: 3/		acre	
	Hours	Hours	Hours	Pounds:	Type	Percent	Trees	Trees	Hours
New York	. 700	0.5	N com					00	0.0
New Jersey	: 160 : 115	25	135	4/3,035	Sour	86	80	90	20
		25	90	1,475	Sour	5/	80	90	20
Mid. Atlantic	130	30	100	4/ 1,855	Sour	73	80	90	20
MIG. ACIANTIC	149	27	122	2,594	Sour	-	80	90	20 /
		7.77							. ,
Ohio	: 110	25	0E	4/7 000	C	F 7	PO.	90	20
Indiana	: 110		85	4/1,696	Sour	53	80		
Illinois	90	25 25	85	1,552	Sour	<u>5/</u> 5/ : 92	80	90 90	20
Michigan	135		65	1,109	Sour	. 5/	80		20
Wisconsin	110	25'	110	4/2,492	Sour		80	90 90	20
E.N.Central	125	25 · 25	85	4/1,723	Sour	82	80	90	20
TION OCHULAT	140	<u> </u>	100	2,177	Sour		00	90	~0
	•								1
Minnesota	60	25 \	35	439	Sour	5/	80	90	20
Iowa	105	25	80	1,433	Sour	5/	80	90	20
Missouri	80	30	50	837	Sour	<u>ع</u> راح	80	90	25
South Dakota	50	20	30	406	Sour	5/	80	90	15
Nebraska	85	25	60	1,022	Sour	<u> </u>	80	90	20
Kansas	85	25	60	1,026	Sour	5/	80	90	20
W.N.Central	87	27	60	1,039	Sour		80	90	22
1								- T	,
	:				•				
Delaware	60	25	3 5	486	Sour	5/ 5/ 5/	80	90	20
Maryland	95	25	70	1,109	Sour	5/	80	90	20
Virginia	85	25	60	929	Sour	5/	80	90	20
West Virginia	65	25	40	531	Sour	5/ 5/ 5/ 5/	80	90	20
North Carolina	: 105	30	75	1,262	Sour	5/	80	90	25
South Carolina	: 120	30	90	1,478	Sour	<u>5</u> /,	80	90	25
Georgia	95	30	65	1,047	Sour	5/	80	90	25
So. Atlantic	87	27	60	932	Sour		80	90	22
									1
Kentucky	70	25	45	608	Sour	5/	80	90	20
Tennessee	90	25	65	18, 985	Sour	3/	80	90	20
Alabama	120	30	90	1,535	Sour	- - - -	80	90	25
Mississippi :	125	25	100	1,686	Sour	5/ 5/ 5/ 5/	80	90	20
E.S.Central	85	25	60	892	Sour	<u> </u>	80	90	20
TI O O COLLOY OFF		~~		00%	Dour				

CHERRIES: Labor requirements per acre 1/ - Continued

*									
		,		Bearing or	7 A. 114764 14,43.			Nonbea orbl	_
		Man hour	S :	:		Per-	Num-	Num-	
State		per acre		Yield:		centage	4		Total
	: :		-			of crop			hours
	: :	Pre- :	Har-				trees		
	:Total:	harvest:	vest	_ /			•	per	•
	:			د رین ه		: 3/	_	acre	
	Hours	Hours	Hours	Pounds	Туре	Percent	Trees		
	:								
Arkansas	90	30	60	894	Sour	- 5/	80	90	25
Louisiana	90	25	65	1,055	Sour	5/	80	90	20
Oklahoma	85	25	60	933	Sour	5/	80	90	20
Texas	65	25	40	598	Sour	5/ 5/ 5/	80	90 -	20
W.S.Central	82	27	55	843	Sour		80	90	21
				040	Dom		, 00	30	Note
Montana	130	35	95	4/1,456	Sour	54	: 80	90	30
Idaho	370	70 ′′	300	4/3,925	Sweet	5/	. 80	90	3 0
Colorado	160	60 °	100	4/1,870	Sour	(Most)	80	90	30
New Mexico	155	30	125	2,226	Sour-	5/	80	90	25
Utah	220	707	150	4/ 2,269	Sweet	할 59	· 80	90-	-30
Mountain	200	62	138	2,218			80	90	29
	;								
	* *								40.
Washington	390	90	300	4/4,574	Sweet	50	75	80	40
Oregon	250	80		4/3,052	Sweet	83	75	80	4Ó
California	290	65	225	3/ 3,490	Sweet	50	80	90	30
Pacific :	303	76	227	3,632	Sweet		77	83	37
				1.	•		-		
United States:	174	41	133	2,386	· · · · · · · · · · · · · · · · · · ·	-	80	89	23

1/ These State averages include sweet and sour cherries picked, packed, and sold as fresh fruit, and those delivered to processing plants. In those States where most of the cherries are sour it takes from 4.5 to 5 hours to pick, pack, and deliver 100 pounds of cherries when the yield is 1,800 to 3,000 pounds per acre; 5.5 to 6 hours per 100 pounds when yields are 900 to 1,800 pounds; and 6.5 to 7 hours per 100 pounds when yields are 500 to 900 pounds per acre. In the sweet cherry States, it takes about 5 to 5.5 hours per 100 pounds when yields are normal and most of the cherries are delivered to processing plants, and about 6 to 7 hours when most of the cherries are harvested for fresh consumption.

The estimated number of trees per acre is somewhat less than the number originally planted.

^{2/} Average for 1934 and 1939, except where noted.

^{3/} Four-year average, 1936-39.

^{4/} Four-year average, 1938-41.

^{5/} Not reported.

DATES: Labor requirements per acre 1/

	:		Bea	: Nonbearing orchards				
State	:	Man h	ours pe	r acre	: 1938-41: : average:			
	:	:	Pre-	:	: yield :	per :		: hours
water the second		Hours	Hours	Hours		Trees	Trees	Hours
Arizona	:	180	140	40	<u>2</u> / 725	50	60	60
California	:	275	150	125	2,660	50	60	70
United States	:	266	149	117	2,475	50	60	70

^{1/} The hours required to pick and haul 100 pounds of dates varies considerably, depending on the yield and variety. The packing is done in packing plants and requires additional labor. For converting number of trees to acres it is assumed that young orchards have a fuller stand of trees than have bearing orchards.

^{2/} Average of 1929 and 1939.

FIGS: Labor requirements per a cre 1/

			-	-			
	•	Poz	ing orch	ande	•	: Nonbea	ring
		Degi.	TIP OF CI	101 (15)		e orcha	rds
	Man have		n con mil	: Average:	Mumber	: Number:	Total
State	nan nou	rs per a	acre	: produc-:	_	of:	man
	, ,	*****	•	: tion:	trees		hours
		Pre-	•	:per acre:	per	per :	per
		harvest	• Harvest		acre	acre:	*
The state of the s							
	Hours	Hours	Hours	Pounds	Trees	Trees	Hours
Trinminio		70	00	0.005	700	7.40	0.0
Virginia North Carolina	98	30	68	2,065	120	140	20
	100	30	70	2,415	120	140	20
South Carolina	: 118	30	- 88	2,838	120	140	20
Georgia	: 105	30	75	2,293	120	140	20
Florida	110	30	80	2,516	120	140	20
So. Atlantic	106	30	76	2,424	120	140	20
:	:			· ·			
Tennessee	55	25	30	666	120	140	20
Alabama	120	30	90	. 2,995	120	140	25
Mississippi	120	_ 30	. 90	3,022	120	140	25
E. S. Central :	111	29	82	2,701	. 120	140	24
					-		
Arkansas	: 110	30	80	2,411	120	140	25
Louisiana	150	40	110	3,922	120	140	30
Oklahoma	60	30	. 30	688	120	140	20
Texas	75	40	35	3/ 820	120	140	35
W. S.Central	84	40	44	1,201	120	140	34
Arizona	125	40	85	2,773	56	60	30
Oregon	92	45	47	1,304	56	60	40
California	155	55	100	3/ 5,860	50	55	45
Pacific	155	55	100	5,854	50 50	55	45
	100			0,00-			
United States	147	53	94	5,336	59	66	43
0111000 000000	<u> </u>	00		- 5,000			

^{1/} According to the census of 1940, figs are grown in a limited way in all Southern States, and in several of the Western States. Estimates are shown here for the most important States. The number of trees represents the number standing per acre, and not the number planted.

With the yields shown, it takes from 2 to 2.5 hours of labor to pick, pack, and haul 100 pounds of figs. In California, where 87 percent of the figs are dried, 6 percent canned, and 7 percent sold fresh, yields are exceptionally good, and it takes about 1.5 hours to pick and haul to the packing or processing plant 100 pounds of figs.

^{2/} Average for 1929 and 1939. Yields for a series of years are not available.

^{3/} Four-year average for 1938-41.

GRAPEFRUIT: Labor requirements per acre 1/

	:	I	Bearing of	orchards	•		earing nards
State	Man h	ours per	acre	:1938-41 :average	: Number : of trees :		
	: Total	: Pre- :harvest	: :Harves	: yield t:per acre	: per :	per	: hours :per acre
	: Hours	Hours	Hours	Boxes	Trees	Trees	Hours
Florida	: 135	70	65	<u>2</u> / 283	65	70	42
Texas	165	95	70	<u>2</u> / 280	65	70	55
Arizona	145	85	60	<u>3</u> / 309	85	90	50
California	: 115	90	25	<u>3</u> / 120	80	85	54
United States	: 144	82	62	present	68	74	47

^{1/} It usually requires from 3.5 to 4.5 hours to pick one ton of grapefruit, and about 2.3 hours to load, haul, and unload a ton. These requirements do not include time for grading, packing, storing, and selling the fruit,

^{2/} Boxes of 80 pounds net.

^{3/} Boxes of 60 pounds net.

GRAPES: Labor requirements per acre 1/

	:		Bearin	ng vineyard	S		Nonbearing
	:						vineyards
Chata	: Man	hours per	r acre	: :1938-41 :		Percentage:	
State					of :	•	
		Pre-:	· · · · · · · · · · · · · · · · · · ·	:average :			
	:Total:	narvest:	Harvest	: yield :		,	per
	: :	<u> </u>				cessing 2/:	
1. 1. 2	Hours	Hours	Hours	Pounds	Vines	Percent	Hours
Maine	: 220	80	740	7 070	6:70		7.00
New Hampshire	: 195	80 -	140 115	7,039	6 3 0		100
1	: 210	80	130	5,813	630		100
2.7		80	95	6,368	630		100
Rhode Island	: 175 : 145	80		4,762	630		100
Connecticut			65 60	3,250	630		100
•	140	80	60	3,100	630		100
New England	150	80	70	3,533	630		100
New York	: 130	80	50	3,400	6 30	47	~100
New Jersey	: 135	70	65	3,235	630	41	180
Pennsylvania	125	_ 55	70		630	37	80
Mid. Atlantic		76	53	3,381 3,393	630	31	95
MIG. ROTALIOTO	• <u>T</u> ~3	70	30	<u> </u>	0.30		33
Ohi•	. 85	50	35	2,092	510	63	70
Indiana	: 115	50	65	3,285	510		70
Illinois	: 130	50	80	3,874	510		70
Michigan	: 90	50	40	2,443	510	-25	80
Wisconsin	: 135	50	85	4,308	510	100	80
E. N. Central		50	41	2,414	510		74
	:						
Minnesota	: 135	55	80	4,014	570		80
Iowa	: 155	55	100	4,027	570		90
Missouri	: 155	80	75	2,950	570	5	120
Nebraska	: 120	50	70	3,485	570	,	80
Kansas	: 115	50	65	3, 1.44	570		80
W. N. Central	: 144	67	77	3,232	570		103
	:						
Delaware	: 150	75	75	3,979	600		120
Maryland	: 160	75	85	4,698	600		120
Virginia	: 215	85	130	7,696	600		120
West Virginia	: 210	85	125	6,806	600		120
North Carolina	: 330	100	230	9,922	350		130
South Carolina	: 285	100	185	6,130	350		130
Georgia	: 260	100	160	5,439	350		130
Florida	: 130	90	40	1,182	465		120
So. Atlantic	2 30	91	139	5,967	457		126
	7						

GRAPES: Labor requirements per acre 1/ - Continued

	:		Bearing	vineyard	 S		Nonbearing
	:					THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	vineyards
	Man	hours p	er acre			Percentage:	
State	*				; of	I	: Total
			:	:average	; vines	:harvested	hours
	:Total:	harvest	: Harvest	: yield	: per	: for pro-	: per
	: :		:	:per acre	: acre	: cessing 2/	acre
	: Hours	Hours	Hours	Pounds	Vines	Percent	Hours
	:	4		-			
Kentucky	: 180	90	90	4,172	500		110
Tennessee	: 190	90	100	4,626	500		110
Alabama	: 220	120	100	2,938	275		150
Mississippi	: 190	120	70	1,824	200		150
E. S. Central	: 195	100	95	3,786	413		122
	:						
Arkansas	: 130	80	50	1,959	570	47	120
Louisiana	: 165	120	45	1,165	200		150
Oklahoma	: 100	50	50	2,546	570		80
Texas	: 110	50	60	2,952	. 570	P. A	80
W. S. Central	: 123	72	51	2,172	568		96
•	:						
Idaho	: 180	60	120	6,073	500		90
Colorado	: 140	60	80	3,856	490		90
New Mexico	: 215	150	65	2,646	500		150
Arizona	: 205	100	105	5,329	500		120
Utah	: 130	. 70	60	3,105	500		90
Nevada	: 170	70	100	5,100	500		90
Mountain	: 177	102	75	3,596	499		118
	:						
Washington	: 210	75	135	8,940	490	Most	100
Oregon	: 145	55	90	4,492	490	12	100
California	: 200	60	140	9,200	500	3/	100
Pacific	: 200	60	140	9,099	500		100
2	:						
United States	: 185	61	124	8,009	512		99

^{1/} These estimates are State averages in which are included great variations in number of vines per acre, yields, varieties, marketing procedure, and care given the vineyard. In the Southern States 540 vines per acre for American bunch types of grapes, and 160 vines per acre for Inscadine types were used in calculating the average number of vines per acre.

On the average, American bunch grapes require from 1.5 to 2 man hours per 100 pounds to harvest and haul to market or processing. Muscadine varieties require around 4 man hours per 100 pounds.

^{2/} In several of the important grape producing States a considerable part of the crop is processed and the remainder is marketed as fresh grapes.

^{3/} Raisin varieties, 57 percent; table varieties, 17 percent; and wine varieties, 26 percent.

LEMONS: Labor requirements per acre 1/

	i II	Bea	ring or	chards	:		pearing chards
State :	Man 1	iours: per	acre.		:Number : of trees:		
1.		Pre- :	Harvest	: yield	: per :	per	: hours :per acre
	Hours	Hours	Hours	Boxes	Trees	Trees	Hours
Florida	115	80	35	2/48	70	75	40
Texas	175 ₋	. 115	. 60	2/ 79	70	· 7 5	60
Arizona	185	120	65	<u>2</u> / 85	. 80 .	85	60
California	290	120	170	<u>3</u> /240	85	90	60
United States	286	119	167	7 1	85	. 90	60 .

^{1/} It normally takes from 15.5 to 16.5 man hours to pick one ton of lemons, and around 2.5 hours to load, haul, and unload a ton. This does not include grading, packing and storing, which generally is done by central packing plants.

^{2/} Average for 1929 and 1939. Boxes of 80 pounds net.

^{3/4-}year average, 1938-41. Boxes of 76 pounds net.

LINES: Labor requirements per acre 1/

	Bearing orchards Nonbearing	orchards
State	Man hours per acre :1938-41 : Mullion : Mullio	man lours
		er acre
-	Hours Hours 2/ Boxes Trees Trees	Iours
Florida California	: 110 80 30 32 100 110 : 160 120 40 3/45 100 110	40 55
United States	: 115 84 31 33 100 110	41

^{1/} Florida produces 90 percent of the limes grown in the United States. It takes about 20 man hours to pick one ton of limes, and 2.5 hours to load, haul, and unload a ton. The above estimates do not include labor for grading, picking, storing, or selling limes.

ORANGES: Labor requirements per acre 1/

	ORANGES: Habot Toque of the first transfer o
	Bearing or chards Nombearing or chards
State	Han hours per acre :1938-41 : Number : Number : Total : average : of trees: of trees: man : yield : per : per : hours : Total:harvest:Harvest:per acre : acre : per acre
	Hours Hours Boxes Trees Trees Hours
Florida Texas Arizona California	140 80 60 2/ 150 65 70 40 170 105 65 2/ 131 65 70 55 135 100 35 3/ 87 85 90 50 170 100 70 3/ 196 85 90 50
United States	156 91 65 - 75 75 43

^{1/} Small acreages of oranges, largely Satsuma, are reported as grown in several other Southern States. From 6.5 to 8.0 hours are usually required to pick one ton of oranges, and about 2.5 hours are required to load, haul, and unload a ton. In the commercial districts grading and packing are done in central packing plants. These labor requirements do not include this labor.

^{2/} Boxes of approximately 80 pounds net.

^{3/} Average for 1929 and 1939.

^{2/ 90} pounds net.

^{3/ 70} pounds net.

PEACHES: Labor requirements per acre

Bearing orchards Nonbearing or chards
Nan hours per acre
Maine 85 55 30 47 110 30
Pre-
Hours Hours Hours Bushels Trees 2 Hours Hours Hours Hours Bushels Trees 2 Hours
Hours Hours Hours Bushels Trees 2 Hours
Maine 85 55 30 47 110 30 New Hampshire 95 55 40 66 110 30 Vermont 105 55 50 83 110 30 Massachusetts 85 50 35 66 110 30 Rhode Island 100 55 45 88 110 30 Connecticut 110 50 60 120 110 30 New England 99 51 48 93 110 30 New Jersey 125 55 70 160 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illi
New Hampshire 95 55 40 66 110 30 Vermont 105 55 50 83 110 30 Massachusetts 85 50 35 66 110 30 Rhode Island 100 55 45 88 110 30 Connecticut 110 50 60 120 110 30 New England 99 51 48 93 110 30 New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
New Hampshire 95 55 40 66 110 30 Vermont 105 55 50 83 110 30 Massachusetts 85 50 35 66 110 30 Rhode Island 100 55 45 88 110 30 Connecticut 110 50 60 120 110 30 New England 99 51 48 93 110 30 New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
Vermont : 105 55 50 83 110 30 Massachusetts : 85 50 35 66 110 30 Rhode Island : 100 55 45 88 110 30 Connecticut : 110 50 60 120 110 30 New England : 99 51 48 93 110 30 New York : 105 50 55 106 100 25 New Jersey : 125 55 70 160 110 25 Pennsylvania : 110 55 55 123 120 20 Mid. Atlantic : 111 53 58 123 110 23 Ohio : 80 40 40 73 100 20 Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Massachusetts : 85 50 35 66 110 30 Rhode Island : 100 55 45 88 110 30 Connecticut : 110 50 60 120 110 30 New England : 99 51 48 93 110 30 New York : 105 50 55 106 100 25 New Jersey : 125 55 70 160 110 25 Pennsylvania : 110 55 55 123 120 20 Mid. Atlantic : 111 53 58 123 110 23 Ohio : 80 40 40 73 100 20 Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Rhode Island 100 55 45 88 110 30 Connecticut 110 50 60 120 110 30 New England 99 51 48 93 110 30 New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Penmsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
Connecticut 110 50 60 120 110 30 New England 99 51 48 93 110 30 New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
New England 99 51 48 93 110 30 New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
New York 105 50 55 106 100 25 New Jersey 125 55 70 160 110 25 Pennsylvania 110 55 55 123 120 20 Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
New York : 105 50 55 106 100 25 New Jersey : 125 55 70 160 110 25 Pennsylvania : 110 55 55 123 120 20 Mid. Atlantic : 111 53 58 123 110 23 Ohio : 80 40 40 73 100 20 Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
New Jersey : 125 55 70 160 110 25 Pennsylvania : 110 55 55 123 120 20 Mid. Atlantic : 111 53 58 123 110 23 Ohio : 80 40 40 73 100 20 Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Pennsylvania : 110 55 55 123 120 20 Mid. Atlantic : 111 53 58 123 110 23 Ohio : 80 40 40 73 100 20 Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Mid. Atlantic 111 53 58 123 110 23 Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
Ohio 80 40 40 73 100 20 Indiana 80 40 40 75 90 20 Illinois 85 40 45 89 90 20
Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Indiana : 80 40 40 75 90 20 Illinois : 85 40 45 89 90 20
Illinois : 85 40 45 89 90 20
Michigan 100 AF FF 188
Michigan : 100 45 55 113 120 20
Wis consin : 70 40 30 40 100 20
E. N. Central: 89 42 47 93 104 20
Towa : 65 35 30 40 90 20
Missouri : 75 40 5 5 57 100 25
Nebraska : 90 40 50 85 100 20
Kansas : 70 40 30 443 90 20
W. N. Central: 73 39 34 54 97 23
Delaware : 135 55 80 157 120 22
Maryland : 125 55 .70 144 120 22
Virginia : 115 55 60 104 100 25
West Virginia .: 95 50 45 75 100 20
North Carolina : 130 70 60 113 130 30
South Carolina : 125 65 60 110 110 30
Georgia 105 . 50 55 103 125 30

⁻ Continued -

PEACHES: Labor requirements per acre 1/ - Continued

						
	:	Re	aring or	nha md e	:	Nonbearing
	:		G1 1116 O1		*	orchards
State	Man	hours	per acre	:1938-41		Total
				_:average		hours
		: Pre-	. •	: yield	: trees :	per
	:Total			t:per acre	e:per acre:	acre
	: Hours	Hours	Hours	Bushels	Trees 2/	Hours
77 1 3	:					
Kentucky	: 100	50	50	68	110	22
Tennessee	: 110	5 5	55	85	130	30
Alabama	: 125	65	60	110	125	30
Mississippi	: 130	65	65	119	120	30
E. S. Central	: 116	59	57	94	122	28
	:					
Arkansas	: 90	40	50	83	100	25
Louisiana	: 120	65	55	95	120	30
Oklahoma	: 80	30	50	81	100	25
Texas	: 60	30	30	44	80	20
W. S. Central	: 75	35	40	64	91	23
	:					•
Idaho	: 200	100	100	2 33	114	. 50
Colorado	: 215	110	105	260	135	. 60
New Mexico	: 140	80	60	130	110	50
Arizona	: 140	80	60	115	90	50
Utah	: 170	80	90	209	140	45
Nevada	: 140	90	. 50	88	90	45
Mountain	: 194	99	95	229	132	56
The second secon	:					
Washington	260	130	130	300	114 .	45
Oregon	: 200	130	70	145	114 .	45
California	: 295	140	155	290	100	45
Pacific	286	138	148	283	102	45
TATOTTE		7.00	740	200	TOY	20
United States	: 125	- 61	64	120	108	27

^{1/} Iabor requirements for harvest include labor for picking, packing, and hauling to market or to processing plant. About 65 percent of the Washington crop is sold as fresh peaches, and 56 percent of the California crop is canned, 20 percent is dried, 8 percent is dehydrated, and 16 percent is sold as fresh fruit.

In most States it takes from 0.5 to 0.6 hour to pick, pack, and market a bushel of peaches. In some of the less important States the time requirement is about 0.7 hour per bushel, and in a few of the heavy producing States like Idaho, Utah, Colorado, and Washington, the labor requirement for harvesting is around 0.4 to 0.5 hour per bushel.

^{2/} The number of trees per acre was considered to be the same for bearing and nonbearing orchards. The number shown for each State is somewhat less than the number originally planted.

ing the fact of \$100

		Be	aring	orcha rds		Nonbeari	ng orchards
The second of th	· Other	la orandi no m		:1938-41 :	Number	: Number	: Total
State	· Field	hours per	acre	:average :	of	: of	man
Allegan Commencer Co	·	: Pre- :	8 1 4 28 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: yield :			: hours
	:Total	:harvest:	Harves	t:per acre:	per acr	e:per acre	:per acre
	Hours	Hours	Hours	Bushels	Trees	Trees	Hours
Maine	: 50	20	39.	66	70	75	÷ 20
New Hampshire	50	20	30	7 2	70	75 :	20
Vermont Common Vermont	45	20	25	52	70	75	20
Massachusetts	60	20	40	77. 😚	70	75 '	20
Rhode Island	50	20	30	60~ -	· ·- 70	7 5	, 20
Connecticut	75	20	-55	103	70	7 5	20
New England	63	720	• 43	, 84	70	75 🗈 🕒	÷ 120
		-		1.5.44			rt 18
New York	75	20	55	104	70	75 a	<i>्रमि</i> 20
New Jersey	70	20	50	96	70	75	20
Pennsylvan ia	70	** .20	- 50	95	70	75	20
Mid. Atlantic	74	20	54	102	70	75	20
				** ** -		, w	
Ohio	70	20	50	96	70	75	20
Indiana	85	20	65	138	7 0	-75	20
Illinois	: 60	20	40	.75	70	. 75	15
Michigan	: 70	20	50	, 99	70	7 5	20
Wisconsin	: 70	20	.50	2/100	70	75	20
E. N. Central	68	20	48	95	• • 70	75	19
	:			- 4			
Minnesota	70	20	50	2/100	70	75	20
Iowa :	80	.20	60	130	70	7 5	_ 15
Missouri	: 75	20	.55	121	70	75	20
Nebraska	: 60	20	40	75	70	- 75 	15
Kansas	: 60	20 .	40	2/.75 -	70	75	15
W. N. Central	: 71	20	51	108	70	7 5	18
Delaware	* 70	₌ 20	50	, 100	70	n -	20
	: 70	1"	50	100		75	
Maryland	; 60	20	40	84 :	70	75	20 ~20
Virginia West Virginia	: 85	20	65	150	7 0	75	
North Carolina	: 65	2.5	40	75	70		20
South Carolina	: 80 : 9.0	25 25	55		70	75 75	25 25
			6 8 :		70		25 25
Georgia Florida	: 90 ₋ 80 ₋	25 25	65	149	70	75 75	25
So. Atlantic	81		55 58	116 128	70 :	75	23
50. Actanole				120	10 :		
The same of the	ૢ૽૽ૡ૱ૢ૽૽૽ૼૢૺૡૡ ૽					- Continue	ed -

त्र १०० मध्यस्य सम्बद्धाः सम्बद्धाः सम्बद्धाः । १९११ - १०० मध्यस्य १०० मध्यस्य १००० हो ।

⁻ Continued -

PEARS: Labor requirements per acre 1/ - Continued

				· · · · · · · · · · · · · · · · · · ·	maked to recommend the desired of the second			
		Bear	ing orc	hards	m Striger	-Nonbeari		rds
State		ours per	· care made a superior dela	: Tield	: of : trees	Number of trees	man hours	
	The second second			rper acre	per:acre	per acre:	Hours	
0.	Hours	Hours_	Hours	Bushels	Trees	T. T. C. C. C.	dishratar navidasiy	
Kentucky Tennessee Alabama Mississippi	90 75 90 95	25 25 25 25	65 50 65 70	156 106 147 170	70 70 70 70	75 75 75 75 75	20 20 25 25 23	
E. S. Central	87	25	62	143	(.0.	(
Arkansas Louisiana Oklahoma Texas W. S. Central	80 90 60 75	25 25 20 20 20 22	55 65 40 55 53	113 153 - 76 123 115	70 70 70 90 78	75 75 75 95 84	25 25 20 20 20	
Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada Mountain	100 140 100 120 125 105 135 115	50 50 50 60 50 50 60 50	50 90 50 60 75 55 75 65	100 228 100 136 185 113 186 159	90 100 70 90 90 90 90 90	100 105 75 100 100 100 100 100	40 50 40 40 40 40 50 40	
Washington Oregon California Pacific	: 325 : 225 : 225 : 244	150 125 135 136	175 100 90 108	414 228 3/ 190 240	100 70 90 88	105 75 100 87	80 80 65 75	
United States	: 158	78	80	174_	80	81	37.	

1/ Labor requirements for harvest include labor for picking, packing, and hauling to market or to processing plant. About 20 percent of the California crop is dried, 40 percent canned, and 40 percent sold for fresh consumption.

Little information is available on the number of pear trees per acre, and the data shown here are only rough approximations for most States. The number shown is less than the number originally planted.

It usually takes about 0.4 to 0.5 of an hour to harvest, pack, and haul a bushel of pears.

^{2/} Short-time average.

^{3/4-}year average as reported by the California Reporting Service.

PLUMS AND PRUNES: Labor requirements per acre 1/

	:	Rea	ring or	chards		: Nonbe	
	:	200				: orch	
	: Man h	ours per	2 020	: Yield :		: Number	:,
State	·		4016	: per :	of	of	: Total
		Pre- :		: acre :	trees	trees	: hours
		harvest:		: 2/:	per acre	:per acr	e:per acre
	: Hours	Hours	Hours.	Bushels	Trees	Trees	Hours
	:						
New York	: 60	30	30	4'7	90	100	20
New Jersey	: 65	30	35	54	90	100	20
Pennsylvania	: 65	30	3 5	54	90	.100	20
Mid. Atlantic	: 62	30	32	50	<u>90</u>	100	20
	:						
Ohio	: 60	30	30	47	90	100	20
Indiana	: 60	30	30	50	90	100	20
Illinois	: 60	30	3 0	43	90	100	15
Michigan	: 70	30	40	3/ 65	90	100	20
Wisconsin	:_ 55	30	25_	36	90	100	20
E. N. Central	: 62	30	32	51	90	100	19
	:						
Minnesota	: 55	25	30	44	90	100	20
Iowa	: 50	25	25	37	90	100	15
Missouri	: 50	30	20	27	90	100	29
North Dakota	: 45	25	20	27	90	1.00	20
South Dakota	: 50	25	25	32	90	100	20
Nebraska	: 40	25	15	21	90	100	15
Kansas	: 45	30	15	21	90	100	15
W. N. Central	: 50	27	23	33	90 .	100	18
	:	-					
Delaware	: 60	30	30	45	90	100	20
Maryland	: 60	30	30	50	90	1.00	20
Virginia	: 60	30	30	47	90	100	20
West Virginia	: 60	3 5	25	33	90	100	20,
North Carolina	: 70	35	35	61	90	100	25
South Carolina	: 80	35	45	74	90	100	25
Georgia	: 70	3 5	3 5	60	90	100	25
Florida	: 65	35	30	4.0	90	100	25
So. Atlantic	: 66	34	32	51	90	100	23
	:				-		
Kentucky	: 50	30	20	27	90	100	20
Tennessee	: 60	30	30	50	90	100	20
Alabama	: 75	35	40	64	90	100	25
Mississippi	: 70	35	35	~ 60	90	100	25
E. S. Central	62	32	30	46	90	100	23
	:						
Arkansas	65	3 5	30	40	90	100	25
Louisiana	: 65	3 5	30	39	90	100	25
Oklahoma	: 50	25	25	36	90	100	20
Texas	4 5	25	20	30	90	100	20
W. S. Central	52	28	24	34	90	100	21
							

PIUMS AND PRUNES: Labor requirements per acre 1/- Continued

	:		Bearing	orchards		Nonbea:	
State	Man	hours p	er acre	: Yield : per	: Number of	Number of	: Total
		: Pre-	•	: acre	: trees	trees	: hours
		harvest	• Harves				e:per agre
	:Hours	Hours	Hours				Hours
	110013	110001 5	11000 5	Dustiera	Trees	Trees	110015
5- +-	:				0.0	• 00	8 5
Montana	: 80	50	30	. 48	90	100	3 5
Idaho	: 120	60	60	3/ 154	90	100	40
Wyoming	: 70	50	20	30	90	100	40
Colorado	: 90	55	35	61	90	· 100	40
New Mexico	: 90	55	35	63	90	100	40
Arizona	: 95	50	45	83	90	100	40
Utah .	: 90	55	35	62	90	100	40
Nevada	:_ 80	50	30	49	90	100	40
Mountain	: 111	58	53	127	90	100	40
	:						•
Washington	: 125	70	55	3/ 94	80	90	55
Oregon	: 110	55	55	3/ 85	80	90	40
California	:_130	65	65_	3/ 117	80	90	45
Pacific	: 126	63	63	110	80	90	45
	:						
United_States	: 115	58	57	100	82	91_	33

1/ In converting tree numbers to a creages 90 bearing and 100 nonbearing trees per acre were used in all States. These are somewhat less than the number originally planted. It usually requires 0.6 to 0.7 of an hour to pick, pack, and haul a bushel of prunes. In the Northwest it takes about 0.5 hour per bushel for plums sold fresh and 0.75 hour per bushel for those dried or dehydrated.

In Washington, 70 percent of the 4-year production were canned or sold fresh and 30 percent were dehydrated; in Oregon, 40 percent were canned or sold fresh, and 60 percent were dehydrated; in California, about 60 percent of the prunes were dehydrated and 40 percent were sun dried. Nearly 50 percent of the dehydrating in California is done by farm labor. One hundred and seventeen bushels of fresh prunes make 1.3 tons of dried prunes. One bushel of fresh prunes weighs 56 pounds.

^{2/} Average for 1934 and 1939, except as indicated.

^{3/} Four-year average, 1938-41.

QUINCES: Labor requirements per acre 1/

	-		And the Control of th	*	
	: :	Bearing	; orchards		Nonbearing
•	tradio mirror resource estado	merceta analus armenas es regimente	etalinai (Prisiderio dello, conspiratore Charle India) Anglaga	number (St. Charleston, Alberton Value America	: orchards
	· Main	iours per e	resse.	e ganova.	
State	: :	1	. 1	: rield	: Total
		B B		per acre	: : hours
	:	Pre-	:	for 1929	: per acre
	: Total	: hamest :	Harvest :	and 1939	1
	Hours	Hours	Hours	Bushels	Entre e
		TO P. P. D	TEV, PRP 10	Telefore and a second conditions	Hours ;
Massachusetts	: 100	50	50	,130	30
Connecticut	95	50	45	113	30
New England	100	50	50	124	30
				14T	The second secon
New York	110	50	60	197	30
Pennsylvania	85	50	35	74	30
Mid. Atlantic	105	50.	55	179	30
				710	
Ohio	85	50	35	7 2	30
Michigan	100	50	50	123	30
E. H. Central	95	50	45	104	57)
	moreone e la marine				
Virginia	85	50	35	78 - *	30
D-1-1		• • • • • • • • • • • • • • • • • • • •		10	
Tennessee	90	50	40	- 92	30
			10	——————————————————————————————————————	
Texas	85	40	45	1.48	30
				2. 1.V	
Arizona	90	50	40	104	40
			10	TOT	
Washington	105	50	55	182	40
Oregon	100	50	50	174	40
California	85	50	35	94	40
Pacific	87	50	37	105	40
1 00 0 min and	01	- 00	01	100	
United States	100	50	50	149	34
	100	20	50	7.70	U L

The census of agriculture reports a few quince trees of bearing and nonbearing age in nearly all States. Data are shown here for several selected quince producing States. Computations were based on 250 trees per acre throughout. Han labor for picking, and preparing and delivering the fruit to market, average about 0.5 hour per bushel with yields of 50 to 80 bushels per acre; 0.4 hour per bushel with yields of about 100 bushels; and 0.2 to 0.3 of an hour per bushel with yields of 150 to 400 bushels per acre.

ALMONDS: Labor requirements per acre 1/

		Man hours Beari.	ANTONIO - CONTROL PROTESTO PROTESTO POR PROT	:Nonbearing	:	Average yield per	-
State	: Total	Pre- harvest	: Harvest	: Total	-: ;	bearing acre 1937-40	
	Hours	Hours	Носск	Hears		Pounds	-,
California	: 96 : -	62	***34	35	. *	516	

1/ Although the census of agriculture reports a few almond trees in each of several States, California produces practically all of the commercial crop. Labor estimates are based on 70 trees per acre and one hour of man labor to harvest and market 15 pounds of nuts, with average yields of about 500 to 600 pounds per acre.

FILBERTS (HAZELNUTS): Labor requirements per acre 1/

	:			Man hour	s per acr	е		:	Average	
••	:			Reari	ng	:	:Nonbearing:		yield per	
State	;		٠,	Pre- :		:		•	bearing a cre	
	:	Total	:	harvest:	Harvest	:	Total	:	1937-40	
	:	Hours	-	Hours	Hours		Hours	,	Pounds	
Washington	:	63		20	43		25		608	
Oregon	:	69		20	49		30		690	
Pacific	:	68		20	48		29		· 674	

1/ Although the census of agriculture reports filberts and hazelnuts in several States, they are of almost no commercial importance except in Washington and Oregon. In general, there are about 110 trees per acre and it takes one hour of man labor to harvest and market 14 pounds of nuts, with average yields from 600 to 700 pounds per acre.

WALNUTS, PERSIAN (ENGLISH): Labor requirements per acre 1/

	:		s per acr	: Average	
		Beari	ing	:Nonbearing	-
State	:	: Pre-	:	· ·	; bearing acre
	: Total	: harvest	: Harvest	: Total	: 1937-41
	: Hours	Hours	Hours	Hours	Pounds
Washington	· 49	25	24	10	350
Oregon	: 52	25	27	10	405
California	: 81	30	51	15	1,022
Pacific	: 76	29	47	14	912

l/ Persian walnuts are grown in a very limited way in several States, but the 3 Pacific Coast States produce the commercial crop. Labor estimates are based on 24 bearing trees, or 30 nonbearing trees per acre, and one hour of labor to harvest and market 15 pounds of nuts in Washington and Oregon, and 20 pounds in California, with average yields.

PECANS (IMPROVED): Labor requirements per acre 1/

	Ma	ın hours	per acre		: 1958-41 : average	
State		Bearing		Non— bearing	syield per	: trees
		: Pre-	:		: acre	: acre
2	Total	:harvest	: Harvest:	Total	;	•
	Hours	Hours	Hours	Hours	Pounds	Number
North Carolina :	35.0	12.0	23.0	7	185	13
South Carolina :	35.5	12.0	23,5	7	180	14
Georgia	33,5	10.5	23.0	9	135	14
Florida	27,0	6.0	21.0	10	115	15
So. Atlantic :	33,0	10.0	23,0	9	138	14
Alabama	34.5	13.0	21.5	8	125	13
Mississippi :	33.0	14.0	19,0	8	100	13
E. S. Central	34.0	13.0	21,0	8	116	13
Arkansas	30.5	12.0	18.5	8	140	12
Louisiana	31.5	8.0	23.5	6	190	11
Oklahoma :	35.0	11.0	24.0	9	140	15
Texas	27.0	10.0	1.7.0	8	70	13
W. S. Central:	29.0	10.0	J.9 . 0	7	117	13
United States :	32.0	11.0	21.0	8	128	13

1/ These estimates are for orchards in the commercial pecan areas. The nonbearing orchards are frequently interplanted with crops, and the hours of labor were prorated to pecans and other crops on the basis of land area occupied by each. The hours for nonbearing orchards are averages per year for developing orchards to 10 years of age by present approved methods.

Improved pecan trees are reported by the agricultural census in very limited numbers in several States not shown here. Production per tree and per acre varies tremendously. The yields shown are estimates of average production per bearing acre, as cared for during the last several years. It is estimated that a man working 10 hours will, on the average, club and pick from 100 to 140 pounds of pecans, depending on the yield. It usually takes an additional 2 hours per 100 pounds to haul, dry, store, and market the nuts. Most pecans of small producers are sold at the farm.

BLACKBERRIES AND DEWBERRIES: Labor requirements per a cre 1/

(e see ,	-, -, Ma	n hours per aci	re	: Average
State	Total	: Preharvest :	Harvest	: yield : per acre : 2/
*	: Hours	Hours	Hours	Quarts
Naine	195	100	95	615
New Hampshire	195	100	95	622
Vermont	195	100	95	606
Massachusetts	180	100	80	462
Rhode Island	155	100	55	272
Connecticut	190	100	90	575
New England	191	100	91	572
New York	: 220	120	100	702
New Jersey	: 260	100	1600	1,211
Pennsylvania	: 210	120	90	527
Mid. Atlantic	240	110	130	942
Ohio .	: 210	110	100	703
Indiana	: 185	90	95	655
Illinois	: 180	90	90	537
Michigan	: 245	120	125	1,015
Wisconsin	: 175	90	85	487
E. N. Central	221	110	111	834
	:			5
Minnesota	: 190	100	90	529
Iowa	: 185	90	95	608
Missouri	: 210	120	90	580
Webraska Von een	: 205	90	115	798
Kansas	: 190	90	100	684
W. N. Central	204	112	92	600
Delaware	: 185	90	95 -	670
Maryland	: 250	130	120	968
Virginia	: 200	110	90	529
West Virginia	: 175	100	75	371,
North Carolina	: 300	120	180	1,359
South Carolina	: 210	110	100	68 6
Georgia	: 180	100 🔑	80	423
Florida	: 185	100	85	481
So. Atlantic	247	112	135	957
Kentucky	170	100	70	360
Tennessee	: 195	110	85	456
Alabama	: 200	110	90	539
Mississippi	: 185	100	85	441

BLACKBERRIES AND DEVIBERRIES: Labor requirements per acre 1/ - Continued

<i>y</i> .	: Mary	leaved your comp		**************************************
	:Man	hours per acre		_: Average
State	:	w :		: yield
	: Total	: Preharvest :	Harvest	: per acre
	, TY	***	T	: 2/
	: Hours	Hours	Hours	Quarts
Arkansas	: 185	100	85	486
Louisiana	: 175	110	65	32.5
Oklahoma	: 200	110	90	529
Texas	: 210	110	100	688
W. S. Central	: 6 202	108	94	601
	:			
Montana	: 240	130	110	808
Idaho	: 260	140	120	964
Colorado =	: 230	130	100	667
New Mexico	205	125	80	410
Arizona	235	125	110	830
Utah	: 255	140	115	873
Mountain	250	137	113	848
	:			
Washington	\$ 585	185	400	4,242
Oregon	: 405	170	2 35	2,340
California	: 300	120	180	1,633
Pacific	: 472	166	306	3,140
United States	243	116	127	980

¹/ Commercial areas. Low yields require relatively more time to harvest a quart of berries than do high yields. The number of quarts of berries picked; packed, and marketed with one hour of labor was estimated to be about as follows: Yields of less than 500 quarts per acre, $4\frac{1}{2}$ to 5 quarts per hour; yields of 500 to 700 quarts, 6 to 7 quarts per hour; yields of 700 to 1,000 quarts, 7 to 8 quarts per hour; yields of 1,000 to 1,500 quarts, 8 to 9 quarts per hour; yields of 1,500 to 2,000 quarts, 9 to 10 quarts per hour; yields of 2,000 and more quarts, 10 to 12 quarts per hour. One quart of berries weighs about $1\frac{1}{2}$ pounds net.

^{2/} Averages for 1929 and 1939, as reported by the Bureau of the Census. Yields are not available for a series of years.

BIUEBERRIES: Labor requirements per acre 1/

	:	Tame		: Wild			
	•			: Average:			
State	Han l	nours per	acre		per acre :	yield	
	:	Pre- :	c	:per acre:			
	: Total :	harvest:	Harvest	-		2/	
	: Hours	Hours	Hours	Quarts	Hours	Quarts	
	:		the state of the s				
Maine	90	50	40	423	90	276	
New Hampshire	95	50	45	438	50	148	
Vermont	65	50	15	123	35	107	
Massachusetts	: 125	50	7 5	752	50	150	2
Rhode Island	65.	50	1 5	88	70	205	
Connecticut	105	50	55	531	95	281	
New England	91	50	41	42.9	83	254	
	3		• /				
New York	160	7 5	85	1,044	60	170	
New Jersey	: 190	100	90	1,111	100	298	
Pennsylvania	150	75	75	750	30	96	
Mid. Atlantic :	186	97	89	1,098	51	147	-
					2.2.		
Ohio	: 165	7 5	90	1,087	100	292	
Indiana	: 155	75	80	933	50	144	
Michigan	165	7 5	90	880	80	243	
Wisconsin	160	50	110	1,281	75	230	
E. N. Central	165	75	90	890	75	227	
Winnegate	- - 770	F0	CO	EAG	70	00	
Minnesota	110	50	60	54 5	30	92	
Iowa .	105	50	55	515	180	716	
Missouri W. N. Central	140	50	90	877 ·	77	04	
W. W. Central	118	50	68	646	31	94	
Maryland	· _				2 0 0	3/773	
West Virginia	115	50	65	661	2 0 0 55	3/7/3 159	
North Carolina	: 160	80	80		55	T99	
South Carolina	90	70	20	<u>3</u> / 986 3/ 1 36	Bridge-g		
0	120	70	50	<u>3</u> 130 465			
Florida	110	70	40	293	***		
So. Atlantic	112	70	40	394	63	191	- 37
DO NOTATIOTO		11	#0	254	0	737	
Tennessee	80	60	20	3/ 120	-		
Alabama	125	60	65	670	-		
Mississippi	90	60	30	212	pusted.		
E. S. Central	116	60	56	557			
De Donoral				001			

⁻ Continued -

BLUEBERRIES: Labor requirements per acre 1/ - Continued

:		Tar		: Wild		
State	Man hours ner acre			: Averag		rs: Average
	Total	: Pre- : harvest	: Harvest	- ,	re: for har : vesting	- ,
man in which	Hours	Hours	Hours	Quart	s Hours	Quarts
Arkansas	130	60	70	725	,	
Louisiana	90	60	30	3/210		-
Texas	100	60	40	$\frac{3}{3}$ / 335		0 0 10
W. S. Central	96	60	36	290		Section 19 April 19 A
:						
Washington	250	90	160	3/1,830		
California	120	90	- 30	$\frac{7}{3}/164$		-
Pacific	199	90	109	1,172		
United States :	126	68	58	611	80	243

^{1/} Estimates are for tame blueberries, and for wild blueberries, as reported by the Bureau of the Census. It generally requires 1 hour of labor to pick, machine clean, and haul to market from 10 to 15 quarts of tame blueberries. Wild blueberries are usually harvested and marketed at the rate of 3 or 4 quarts per hour of labor.

^{2/} Averages for 1929 and 1939, as reported by the Bureau of the Census. Yields for a series of years are not available.

^{3/} For 1929 only.

BOYSENBERRIES: Labor requirements per acre 1/

The state of the s		n hours per ac		anne supplement of the second
Q+-1-	Me.	1939		
State		: : Freharvest :	Harmest	yiold per acre 2/
7."	A series	Ecurs	Hour's:	६ एप्रवर्ष्ट्र
Connecticut	175	109	. 75	407
				•
New Jersey :	195	100	95 .	650
Pennsylvania	220	120	1.00	- 681
Mid-Atlantic :	206	109	9.7	664
		* · · · · · · · · · · · · · · · · · · ·		
Ohio	200	110	90	00 677
Indiana	220	90	130	637
Illinois :	175	90 90	85	540
Michigan :	205	120	. 85	569
E. N. Central	196	105	91	641
			Marian Marian I and American Commission of the C	· · · · · · · · · · · · · · · · · · ·
Missouri :	230	120	110	775
Maryland :	310	130	180	1,602
Virginia :	200	110	90	605
North Carolina :	225	120	105	738
South Carolina :	270	110	160	1,608
Georgia :	195	100	95	661
So. Atlantic :	208	108	100	713
		and the second		-
Kentucky	145	100	45	266
Tennessee :	160	110	50	299
Mississippi :	235	100	135	1,227
E. S. Central	171	107	54	451
•		1		
Arkansas	200	100	100	719
Oklahoma':	205	110	95	658
W. S. Central :	202	105	97	689
;				
Mankana	210	120	90	500
Montana ; Idaho ;	210 310	130 - 140	80 170	506
Colorado :	230	130	100	1,572 703
Arizona	240	125	115	799
Utah :	235	140	95	670
Mountain :	273	137	136	1,148
-				

BOYSENBERRIES: Labor requirements per acre 1/ - Continued

State	<u>:</u>	lan hours per ac	: : 1939	
	: Total	: Prcharvest :	Harvest	: yield : per acre : 2/
	: Hours	Hours	Hours	Quarts
Washington	: 295	175	120	938
Oregon	: 370	170	200	1,902
California	: 385	125	260	2,782
Pacific	: 366	154	212	. 2,100
United States	: : 340	147	193	1,867

¹/ Commercial areas. Labor requirements for picking, packing, and hauling Boysenberries are about the same as for blackberries of the same yield. One quart of berries weighs about $1\frac{1}{2}$ pounds net.

^{2/} Yields shown for 1939 only, and in some instances may be considerably out of line with average yields.

CRANBERRIES: Labor requirements per acre 1/

	;	Man hours per acre							
State .	:	Hand pic	king	£	Cocoping		: 1930-39 : average : yield		
	Total	: Pre- :harvest	inrvest	Total	: Pre- barvest	*Harvest	; per acre		
	Hours	Hours	Hours	Hours	Hours	Hours	Barrels		
Maine New Hampshire	236 197	200 180	36 17	203 185	200	. 8 5	2/ 6.8 2/ 2.6		
Massachusetts	300	220	80	235	220	15	30.0		
Rhode Island	230	200	. 30	207	200	77.	2/ 5.2		
Cornecticut	290	210	30	225	210	15	2/ 19,8		
New England	299	220	79	235	220	15	29,8		
New York New Jersey	285 246	210	75 46	224 210	21Ò 200	14 10	<u>2</u> / 18.3 9.6		
Mid. Atlantic	247	200	47	210	200	10	9.8		
Michigan Wisconsin	224 301	200 220	24 81	206 237	200	. 6 17	2/ 4.2 29.9		
W. N. Central	293 -	218	75	234	213	16	27.3		
							-		
Minnesota	302	220	82	230	220	10	2/ 30.7		
Washington Oregon	300	215 220	85 83	230 238	215 220	15 18	21.6 30.9		
Pacific	301	217	84	232	216	16	24.4		
United States	284	214	- 70	228	214	14	23.9		

^{1/} Commercial cranberry bogs are pruned, sanded, weeded, irrigated, fertilized, and limed. Ditches are cleaned and treatment is provided for pest and insect control. All of this normally takes around 200 hours per acre. Although harvesting cranberries by the scoop method results in a loss of from 10 to 20 percent of the yield, the saving in labor more than makes up the loss. Scooping requires usually .5 to 1 hour of labor per barrel, while hand picking requires from 2.5 to 5.0 hours of labor per barrel. One barrel contains about 85 quarts of cranberries and weighs from 90 to 105 pounds.

^{2/} Averages for 1929 and 1939, as shown by the Bureau of the Census. A series of yields are not available for these States.

CURRANTS: Labor requirements per acre 1/

-	Mar	hours per	acre	:	Average	
State	:	Pre-	:	-` :	yield	
0	Total:	harvest	: Harvest	:	per acre	2/
:	Hours	Hours	Hours		Quarts	
*Maine	185	90	95		834	
*New Hampshire	175	90	85		67 7	
*Vermont	: 185	90	95		873	
*Mascochusetts	185	90	95		762	
*Rhode Island	: 190	90	100		893	
*Connecticut	200	90	110		1,093	
New England	192	90	102		942	
New York	250	100	1 50		1,666	
*New Jersey	230	90	140		1,412	
*Pennsylvania	27.5	neŭ -	115		1,144	
Mid. Atlantic	248	10/	143		1,635	
:						
Ohi.o	205	90	115		1,132	
*Indiana	160	80	80		630	
*Illinois	160	80	80		637	
Michigan :	210	90	120		1,170	
*Wisconsin	175	90	85		682	
E. N. Central :	205	90	115		1,107	
*Minnesota :	175	90	85		684	
*Iowa	170	80	90		729	
*North Dakota :	2000	90 -	60		407	
*Nebraska :	160	80	80		665	
*Kansas :	130	80	50		328	
W. N. Central :	171	89	82		653	
					*	
*Maryland ::	200	100	100		890	
*Virginia :	175	100	7 5		512	
*Georgia :	1 75	90	85		653	
So. Atlantic :	190	98	92		767	
:						
*Oklahoma :	160	100	60		38 9	
*Texas	160	90	70		470	
W. S. Central :	11.00				<u> </u>	

CURRANTS: Labor requirements per acre 1/ - Continued

			the state of the s		
	Man	hours per a	cre	. Average	
State "	ctyte i	: Pre-	\$ A	: yield	
	- Total	: harvest	: Harvest	: per acre	2/_
No.	Hours	Hours	Hours	Quarts	
and the State of the Laboratory			1 0		
*Montana	1 95	100	95	761	
*Idaho	220	120	100 ·	918	
*Wyoming	150	100	50	320	
*Colorado	180	100	80	661	
*New Mexico	150	100	50 .	322	
*Arizona	: 155	100	55	383	
*Utah	225	_110	115 :	1,148	
*Nevada	185	120	65	486	
Mountain	199	107	92 .	818	
	;				*
Washington	345	145	200	2,205	
*Oregon	235	130	105	971 :	
California	245	100	145	1,431	
Pacific	300	127	173 ;	1,826	
United States	241	101	140	1,482	

^{1/} Currants were reported by the 1930 and 1940 census of agriculture for the States shown. In most States the acreage was very small. In those States marked with an asterisk (*) the acreage reported for 1939 was less than 100. The requirements shown are for units of 1 acre or more in size. The number of quarts that is normally picked, packed, and hauled to market with 1 hour of labor varies from about 7 to 10, depending largely on the yield per acre.

^{2/} Averages for 1929 and 1939, as reported by the Bureau of the Census. Yields for a series of years are not available.

THER MEN OF CALL OF

GOOSEBERRIES: Labor requirements per a-cre 1/

The second secon	: Ma	an l	nours per	ac	re	: (10	
State	:		Pre-	:		_;	Average yield	
	: Total	:	harvest	•	Harvest	:	per acre	2/
	Hours		Hours		Hours		Quarts	
Connecticut	190		90		100		990	
	: : ,							-
	220		100		120 (1,356	
	170		90		80		712	,
Pennsylvania Mid. Atlantic	185 217		100		85 ` 117 '		760	
MICO ACLANOIC	<u> </u>		100				T000T	
• •								
Ohio	185		90		95		858	
	150		80		70 [‡]		616	*
	150		80 -		70		590	
	190		90		100		1,065	
Wisconsin	220		90		130		1,545	
26 116 001141	184		89		95		982	
* ** ** ** * * * * * * * * * * * * * *								
	170		90		80		707	
· · · · · · · · · · · · · · · · · · ·	150		80		70		590	
	175		110		65	*	539	
1.02 011 2	150	. 9	90		60		475	
	170	•	100		70		629	
Nebraska	130		, 80		50		383	
Kansas	145		80		65		549	
W. N. Central	169		102		67		559	
	•							
West Virginia	150		100		50		394	
8	:							
1								
Kentucky	: 155		100		55		428	
Tennessee	190 162		100		90 62		842 511	
E. S. Central	TOK		100		0%		311	
Arkansas	165		100		65		554	

⁻ Continued -

GOOSEBERRIES: Labor requirements per acre 1/ - Continued

		Man	hou	rs per ac		: Average	
State	:	Total	:	Pre- harvest	:	Harvest:	yield per acre 2/
-	;	Hours		Hours		Hours	Quarts
Montana	:	160		100		60	499
Idaho *	:	215		120		.95	905
Wyoming	:	185		100		85	769
Colorado	:	235		100		135	1,621
New Mexico	:	155		100-		55	442
Ütah	:	265	,	110		155	1,882
Mountain	:-	229		110		119	1,325
Washington	:	320		145		175	2,384
Oregon	:	250		130		120	1,256
California	:	230		100		130	1,445
Pacific	:-	268		133		1.35	1,558
United States	:	234		118		116	1,288

^{1/} Gooseberries are grown in a very limited way in most States, according to the 1930 and 1940 census reports. A few gooseberry bushes are reported in several of the States not listed here. The labor requirements shown are estimates for units of one acre or more in size. The number of quarts that is picked, packed, and hauled to market with one hour of labor varies from about 8 to 15, depending largely on the yield per acre.

^{2/} Averages for 1929 and 1939, as reported by the Bureau of the Census. Yields for a series of years are not available.

LOGANBERRIES: Labor requirements per acre 1/

-	М	an hours per	: Average	
* State	Total	: Pre- : harvest	: Harves	: yield t : per acre 2/
	Hours	Hours	Hours	Quarts
Okla homa	225	110	115	951
Idaho	265	140	125	1,037
•				
Washington	390	175	215	2,135
Oregon :	370	170	200	1,967
California :	3 25	125	200	1,940
Pavific ;	372	168	204	2,006
United States	370	168	202	1,994

^{1/}Commercial areas. Labor requirements for picking, packing, and hauling loganberries are about the same as for blackberries of the same yield. One quart of berries weighs about 12 pounds net.

^{2/} Averages for 1929 and 1939, as reported by the Bureau of the Census. Yields are not available for a series of years.

RASPBERRIES: Labor requirements per acre 1/

	* '			
State	· •	cre	Average	
*		: Pre:	:	yield
	: Total	: harvest : :	Harvest :	per acre 2/
	# Hours	Hours -	Hours	Quarts
	:			
Maine	205	7.70	3.05	770
New Hampshire	: 305 : 285	130	1 7 5 165	77 9 656
Vermont "	: 305	120°	185	842
Massachusetts	: 280	120 °.	160	644
Rhode Island	<i>2</i> 25	100	125	492
Connecticut	: 290	120	170	772
New England	294	123	171_	744
		1100	J. F. JL.	
en e	:	•		
New York	: 340	140	200	994
New Jersey	: 255	100	1 55	707
Pennsylvania	305	120	185	832
Mid. Atlantic	: 321	u 130	191	920
	:			1
	:			,
Ohio	: 300	120	180	817
Indiana	: 27.0	100	170	683
Illinois	: 265	100	165	652 '
Michigan Andrews	270	100	170	7 05
Wisconsin	255	100	155	699
E. N. Central	:273	103	170	717
•				
Minnesota	205	7.00	305	966
Iowa	295	100	195 170	6 7 6
Missouri	: 300	-· 120	180	820
North Dakota	: 190	90	100	399
South Dakota	245	120	125	498
Nebraska	: 240	90	150	- 599
Kansas	: 260	100	160	649
W. H. Central	284	100	184	847
	:			
	:			
Delaware	225	90	135	5 39
Maryland	37 5	160	215	1,075
Virginia	: 280	120	160	732
West Virginia.	: 265	120	145	575
North Carolina	: 275	120	155	700
South Carolina	: 215	120	95	378
Georgia	275	120	<u>155</u>	614
So, Atlantic	307		173	783

RASPBERRIES: Labor requirements per acre 1/ - Continued

					-
	•	Man h	ours per acr	e	: Average
*	State		Pre- :		: yield
-		Total:	harvest:	Harvest :	per acre 2/
		Hours	Hours	Hours	Quarts
Kentucky		280	120	160	645
Tennessee		295	120	17 5	696
Alabama		365	120	245	1,213
	Central	291	120	171	697
п. о.	Central	291	TKU	1/1	031
Arkansas		- 260	120	140	5 7 0
Oklahoma		2.30	120	110	433
W.S.	Central	258	120	138	562
	:				
Montana		405	160	245	1,221
Idaho		400	160	240	1,187
Wyoming		330	140	190	865
Colorado	:	335	140	195	936
New Hexico		280	135	145	5 7 8
Arizona	:	315	140	175	7 86
Utah	:	4 35	160	275	1,364
Nevada		345	160	185	845
· Lioun	tain	389	154	2.35	1,156
			-5		
Washington		500	17 5	32 5	1,965
Oregon		410	160	250	1,265
California		545	140	405	2,642
Paci	fic	457	164	293	1,663
Unit	ed States	321	123	198	945
01170	eu blates	<u> </u>	TYO	130	0.30

L/Commercial areas. Yield has a direct bearing on the number of hours required to harvest an acre. Low yields require relatively more harvest time per quart than do large yields. The number of quarts of berries picked, packed, and marketed with one hour of labor were estimated to be as follows: Yields of less than 700 quarts per acre, 4 quarts per hour; yields of 700 to 1,000 quarts per acre, 4.5 quarts per hour; yields of 1,000 to 1,500 quarts per acre, 5 quarts per hour; yields of 1,500 to 2,000 quarts per acre, 6 quarts per hour; yields of over 2,000 quarts per acre, from 6 to 7 quarts per hour. One quart of berries weighs about 12 pounds net.

^{2/} Average for 1929 and 1939 as reported by the Bureau of the Census. Yields are not available for a series of years.

STRAWBERRIES: Labor requirements per acre 1/

	Man	hours pe	w 2 awa	: 1930-39	: Number
	MCII	nom s pe	1 acre	: average	of years
. State	: :	Pre-:	:	: yield	:beds are
	: Total :	harvest	: Harvest	: per acre	: cropped
	: Hours	Hours	·	Quarts	Years
	· Hours	11001 5	Hours	Qual ob	<u>ICAI D</u>
Maine	400	0.70	0.70	0 / 7 '740	2
	: 460	2 30	230	2/1,348	
New Hampshire	: 485	230	255	2/1,497	2
Vermont	: 5 30	2 30	300	2/1,766	2
Massachusetts	: 650	2 30	420	2/2,520	2
Rhode Island	. 425	200	225	2/1,348 2/1,497 2/1,766 2/2,520 2/1,328 2/2,360	2
Connecticut	595	200	395	2/2,360	2
New England	: 574	222	352	2,094	
	:			*	
	:				
*New York	525	200	32 5	1,896	2
*New Jersey	475	130	. 345	2,016	2
*Pennsylvania	470	200	270		2
Mid. Atlantic	492	180	312	1,608	<u> </u>
MILC. ROLAHOTC	436	T00	2TY	1,832	
	•				
*Ohio	470	750	0.00		
	: 410	150	260	1,536	2
*Indiana	4 35	150	285	1,656	2
*Illinois	365	150	215	1,248	2 2 2
**Michigan	4 90	220	270	1,584	
₩is consin	445	220	225	1,320	2
E. N. Central	440	188	252	1,267	
*Minnesota	4 35	220	215	2/1,260	2
Iowa	380	150	2 30	1,344	2
**Missouri	265	95	170	936	2
17 12 70 4 4	245	100	145		2
0 11 0 1	2 35	100.	135	2/ 790 2/ 730	2
Nebraska	265	140	125	2/ 680	. 2
Kansas	320	130	190	1,104	2
W. N. Central	312		185		~
# W Central	214	127	. 100	1,046	
					'
**Dollaruma		. 000	070	7 004	
*Delaware	300	90	210	1,224	2
**Maryland	370	95	275	1,608	2
**Virginia	400	10	300	1,776	2
West Virginia	285	120	165	2/ 950	2
**North Carolina	585	275	310	1,752	3
South Carolina	490	200 🕝	290	1,632	3
Georgia .	440	200	240	1,368	3
**Florida	970	550	420	1,680	1
So. Atlantic	544	2.37	307	1,612	<u> </u>
		~01		7,010	

STRAWBERRIES: Labor requirements per acre 1/ - Continued

					_ · · _	
	:	Man	hours pe	r acre	: 1930-39 : : average :	Number of years
State	•		Pre-		: yield :	beds are
» State	•	Total:		· Monreagt		
	•	·····	harvest	: Harvest	: per acre :	cropped
	:	Hours	Hours	Hours	Quarts	Years
	:					
**Kentucky	:	31.5	100	215	1,296	3
**Tennessee	:	285	95	190	1,128	3
Alabama	:	700	400	300	1,776	1 and 3
Mississippi	:	575	350	225	1,296	1 and 3
E. S. Central	:	348	137	211	1,258	
	:					-
the same and a	•					
**Arkansas		345	100	245	1,056	3
**Iouisiana	•	940	480	460	1,584	i
Cklahoma		250	100	150	840	3
Texas	•	430	200	230	1,344	1 and 3
W. S.Central	•	647	296	351	1,330	I and 5
" D O CHIOTAL	•	041	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	202	1,000	
	•					
Montana	•	370	130	240	2/1,450	3
	:	375	130	245	2/ I,400	3
Wyoming	•	300	150	150	2/ I,400 2/ 890	3
Colorado		330	130	200	2/ 1,250	3.
New Mexico	•	300	130	170	2/1,020	3
Arizona	:	445	130	315	2/1,890	3
Utah	•	370	130	240	1,440	-3
Nevada		250	120	130	2/ 780	3
Mountain		366	130_	2.36	1,410	
III BUILDIA	٠.	-200	130	230	T,410	
			• .		er ja	•
V Mile - lei		400	. 300	700	7 704	
**Washington	•	470	170	300	1,704	3
**Oregon	:	395	110	285	1,632	3
*California	•.	860	300	560	4,452	4
Pacific	:	518	169	349	2,262	
**	:			n i greci e	There are a re-	
United States	:	487	201	286	1,494	

If the North, commercial beds are usually picked two seasons before they are replaced. In most of the South and West the beds are left three seasons. In Florida, Louisiana and some sections of Alabama, Mississippi, and Texas, the beds are picked only one season before replacement. The labor requirements shown are yearly averages for the usual time the beds are left down. The first year, when the beds are being planted and tended, takes most of the preharvest labor. It usually takes from 4 to 4½ hours of labor to pick, pack and haul to market, a 24-quart crate of berries, depending on yield, and time spent in preparing the berries for market. In Florida and Louisiana, where the crop is early and packed mostly in pints, it takes 6 and 7 hours, respectively, per 24-quart crate.

^{2/} Averages for the two census years, 1934 and 1939.

^{*} States having 4,000 to 7,500 acres in 1959.

^{**} States having 7,500 or more acres in 1939.

YOUNGBERRIFS: Labor requirements per acre 1/

•	Ma	n hours per	: Yield	
State	Total:	Pre- : harvest :	Harvest	per acre
	: Hours	Hours	Hours	Quarts
Indiana	205	90	115	880
Illinois	155	90	65	311
E. N. Central	165	90`	75	425
	:			,
Missouri	240	120	120	954
Kansas	180	90	90	5 30
W. N. Central	2.30	115	115	889
			. '	
Virginia ,	275	110	165	1,265
North Carolina	200	120	80	427
South Carolina	200	110	90	584
Georgia	210	100	110 %	806
Florida	275	100	175	1,335
So. Atlantic	218	103	115	832

Kentucky	215	100	115	880
Tennessee	220	110	110	835
Alabama	270	110	160	1,239
Mississippi	275	100	175	1,343
E. S. Central	243	106	137.	1,046
	,	;		
Arkansas	205	100	105	772
Louisiana	210	110	100	710
Oklahoma	200	110	90	642
Texas	215	110	105	769 .
W. S. Central	205	103	102	745
Montana	210	130	- 80	415
Idaho	305	140	165	1,280
Arizona :	210	125	85	470
Utah	240	140	100	754
Mountain	284	139	145	1,107

YCUNGBERRIES: Labor requirements per acre-1/--Continued

	Man	hours per a	cre	: Yield
State	:	Pre- :		: per acre
	: Total :	harvest:	Harvest	2/
at the state of th	: Hours	Hours	Hours	Quarts
Washington	335	175	160	1,227
Oregon	370	170	200	1,870
California	350	125	225	2,127
Paci fi€	: 361	154	207	1,924
United States	324	142	182	1,648

¹/ Commercial areas. Labor requirements for picking, packing, and hauling youngberries are about the same as for blackberries for the same yield. One quart of berries weighs about $1\frac{1}{2}$ pounds net.

ARTICHOKES: (Globe) Labor requirements per acre

		Man	hours per acr	e : 1930-39 average	
State	:	Total :	Pre- : harvest : Ha	: yield rvest : per acr	е_
	:	Hours	<u>Hours</u> <u>H</u>	Hours Boxes 1	/
California	:	130	75	55 106	

^{1/} Commercial crop. Boxes containing approximately 40 pounds.

BRUSSEL SPROUTS: Labor requirements per acre

	Man hours per acre							
State	:	:	Pre-	:	: yield			
	: To	tal:	harvest	: Harvest	: per acre			
	<u>Ho</u>	urs	Hours	Hours	Pounds 1/			
California	: 7	20	165	555	9,600			

^{1/} Commercial crop. Adams 1941 crop manual - California.

^{2/} Yields for 1939 as reported by the Bureau of the Census. Average yields for a series of years are not available, and some of those shown for 1939 may be considerably out of line with the average.

ASPARAGUS: Labor requirements per acre 1/

		FOF	FRESH MAR	KET 2/	
	Man 1	nours per	acre	: 1930-39 :	
State		_		: average :	
		Pre-	: However orb	: yield :	grouping
		Hours	: Harvest Hours	crates 3/	
	11001 5	11001 5	<u>Hours</u>	012062 3	•
Massachusetts	190	30	160	92	Late
New Jersey	220	25 .	195	110	Iate
Pennsylvania	195	25	170	98	Iate
Middle Atlantic	216	25	191	108	Late
,					
Illinois	175	20	155	624	Late
Michigan	200	25	175	87:	Late
East North Central	184.	22	162	69:	Iate
	:				
Iowa	150.	20	130	51	Late
Delaware	220	25	195	97	Late
Maryland	250	25	225	112	Late
South Carolina	125	25	100	40	Early
Georgia	90	20	70	24	Early
South Atlantic	151	24	127	51	All
Nevada .	175	50	125	4/ ⁻ 55	Iate
T 0					
Washington	220	50	170	115	Late
Oregon	225	50	175	116	Late
California	190	50	140	94	Early
Pacific :	196	50	146	97	All
United States	191	<u>36</u>	155	86	All
	: :			:	•
		FOF	PROCESSIN	G ·	
California , :	125	50	75	1.2 Tor	IS

 $[\]frac{1}{2}$ Commercial crop, from established beds. $\frac{2}{2}$ Includes undetermined quantities for processing in some States cther than California.

^{4/} Short-time average.

BEANS, LIMA: labor requirements per acre

											
	F	or pro	cessin	g 1/	:	F	or fre	esh con	sumption	on	
		Man hou	ırs :	1930-39	:	:	. 1	lan hou	rs	:1930-	39
State						Seasonal:		oer acr	е	:avera	ge
					2	group-:		Pre-		•	d
	Total:	harvest		_	:	ing :	Total:	harvest		_	
	. Ilana S	II and G		acre .	:	· .	Tlemas	II		: acre	
;	Hours	Hours	Hours	Pounds	•	Group	Hours	Hours	Hours	Bushe	TR
					:	Inter-	:				
New Jersey	65	30	3 5	1,150	:		: . 95	30	65	73	
New ect boy				19100	<u>.</u>						
Michigan	60	25	35	1,090	:	La Partie	·:				
Wisconsin	60	25	35	1,080	:						
E.N.Central	60 /	25	35	1,090	:	·					
	•	0.5		7 700	:						
Delaware	: 60	27	33	1,100	:	Inter-					
Maryland	5 5	25	30	980		mediate	85	25	60	60	
mai y tana	•	~0	3 0	300	•	modiado	, 0,)	~0	00	- 00	
	:				:	Inter-					
Virginia	: 70	30	40	1,300	:	mediate	88	30	58	58	
	:				;						
	:				:	Iate	75	30	45	43	
	*				:	T 1 .					
North Carolina	:				:	Inter- mediate	90	30	60	55	
Norun Carottna	; ,					шеатаге	90	50	00	33	
	•				:	Second					
South Carolina	:				:	early	100	27	7 3	66	
	:				:	•					
	:				:	Second			1		
Georgia	:				:	early	90	30	60	47	
Florida	:				:	Forder	110	30	80	82	
So. Atlantic	63	28	35	1,145	<u>:</u>	Early All	99	29	70	62	
DO! HOTAHOTO	:	~		79770	:				<u>-</u>		
Other States 1/	: 65	30	35	1,080	:		•	4			
-	:				:						
<u>United States</u>	: 64	29	35	1,120	:	All	98	29	69	64	

^{1/} Commercial areas. The States listed produced about 73 percent of the commercial lima bean acreage grown for processing. The other 27 percent is grown in Arkansas, California, Colorado, Georgia, Illinois, Indiana, Louisiana, Minnesota, New York, Ohio, North Carolina, Pennsylvania, Oregon, South Carolina, Tennessee, Utah, and Washington.

BEAMS, SNAP: Labor requirements per acre 1/

3 11 7 95	Fo	r proce	essing	2/	Fo	r f r es	sh consi	umption	n ,,	
State	· :	Man hou		1930-39	Seasonal:		Man hou	•	:1930-39	
		Pre-	Har-	yield	group-:	1 4	Pre-	Har-	: yield	
	:Total:	harvest		per acre	ing. :	Total	harvest		: per : acre	
	Hours	Hours	Hours	Tons	: Group	Hours	Hours	Hours	Bushels	3/
Maine	155	35	120	2.7	: :			;	65 (2.2)	<u>,; </u>
New York	: 110	30	80	1.6	: Late	125	30	; 95	<u>4</u> / 118	
New Jersey	:	- :			: Inter. : Late	125 115	25 25	160 90	115 92	
•	100	25	75	1.4	: Late	135	25	110	155	
Mid.Atlantic	107	29	. 78	1,6	: All	124	26	98	113	
Indiana :	80	25	55	1.0.	: : Inter.	75	20	55	43	
Michigan	95	25	70	1.4	: Late	105	25	80	80	
Wisconsin E.N.Central	95 94	25 25	70 69	1.3	All	88	. 22	- 66	55	
D 7-1	7.00	720			•				00	
Delaware a	: 100	30 30	70 70	1.3	Inter.	110	30 30	80 80	86 82	
Virginia				:	: Iate : Inter	105 105	30 30	75 7 5	74 81	
ATT STIFFG.					: S.W."	100	-30	70	78	
North Carolina					: Late : Inter	100 100	30 25	7.0 75	67 65	
3					₩. п	125	25	100	100	
					: Late : Second	100	. 25	75	65	. **
South Carolina	90	30	60	•9	early	100	30	- 70	56	
					: Late : Second	110	30	80	80	
Georgia	,			: .	early N.Inter.	95 125	25 25	70 100	58 108	
	1.				Early		•			
Florida			Ų		(winter) Spring	115 110	25 25	90 85	89 85	
					Fall	125	25	100	: 106	
So. Atlantic :	100	30	70	1.3	: All	111	-26	85	84	

⁻ Continued -

BEANS, SNAP: Labor requirements per acre 1/ - Continued

	:	For pr	ocessin	g <u>2</u> /	- Fo	r fresh	consum	ption		
	: Ma	n hours		1930-39	2. 2.	: M	an hour	5	1930-39	}
State		er scre	*	average	:Seasonal	The second secon	er acre		average	•
	: • Total	Pro-	: Har-:	yield					; yield	
	: 100al:	harvest		per acre	ing	:Total:	harvest			
	Hours	Hours	Hours	179	Group	@Hours	Hours		acre Bushels	3/
	:	APPROXIMATE WE COMMISS	mant incommunity			mortifica (Contributions	110011 0	HOWE	The state of the s	
Tennessee	: 90	30	60	1.1	Inter.	1.00	30	70	70	
	•			1 :	Late	130	30	100	105	
Alabama	:			;	Second	7.00	~~	m 0	00	
react balla	•				early Second	100	30	70	62	
Mississippi	:				early	110	30	80	67	
	2 80	30	50	48	Late	90	30	60	42	
E.S.Central	86	30	56	•95	All	107	30	77	67	
	:							·····		
Arkansas	: 90	30	60	1.0	Inter.	90	20	70	50	
					; 					
Louisiana	90	30	60	1.0	Second early	105	30	75	64	
	:	00	00		Late	100	30	70	55	
				:						
Texas				:	Early	110	30	80	67	
W C Control		70			Fall	105	30	75	50	
W.S.Central	90	30	60		All	103	29	74	61	
Colorado	325	90	2 35	2.7	Late	280	90	190	141	
Utah	360	90	270	3.1 :		,				
Mountain	340	90	250		Late	280	90	190	141	
	;				332.00			3200		
Washington	435	95	340	4.0	:					
Oregon	510	110	400	5.0:					W 0 0	
California	470	90	740	1 0	Early	270	90	180	126	
Doolft			340		Late	310	*90	220	168	
Pacific	477	103	374		All	286	90	196	140	
All other 2/	105	3 0	7 5	1.2						
United States	. j 27	35				704	27	0.7	85	
ourroad Dogges	, TOT	00	96	1.5 :	All	124	31	93	03	

^{1/} Commercial areas. Pole beans for the most part in Colorado, Utah, Washington, Oregon and California.

^{2/} The States listed produce about 88 percent of the commercial snap bean acreage grown for processing. The other 12 percent is grown in Alabama, Florica, Georgia, Idaho, Illinois, Iowa, Kansas, Kentucky, Massachusetts, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, North Carolina, Ohio, Oklahoma, Texas, Vermont, Virginia, West Virginia, and Wyoming. 3/ Bushels of 30 pounds.

^{4/} Short-time average.

BEETS, (TABLE): Labor requirements per acre 1/

:	;	For pr	ocessin	lo d	: Fo	r fresi	h consur	aption		
					:		Man hour		:1930-39	
Ctoto		Man ho	urs :	1930-39	Seasonal	-			:1300-33	
State ,	·				: group-		· Pre-	· Har-	: yield	
					: group—					
	10001			: acre	• 11.6	•	, 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		: acre	
	Hours				: Group	Hours	Hours	Hours	Bushels 2	27
	11002.2	Hours	11001		and Applications	110	110	22		
New York	: 145	70	75	5,9	•		:			
1011 1011		, ,	1	0 9 -	: Inter-					
New Jersey	155	70	85	6.9	: mediate	265	100	165	280 -	
	:				:					
Pennsylvania	:				: Late	285	70	215	359	
Mid. Atlantic :	145	70	75 :	6.1	: All	269	94	175	294	
	:				:					
Indiana	: 110	70	40	3,5	:					
	: 130	70	60	5.7	:					
	: 140	70	70 5	6,8	:			The Control of the Party of the		
E. N. Central		70	65	6.2	: All					
77	:				: Inter-	285	85	200	284	
Virginia					: mediate	200	, 03	200	÷.	
North Carolina					: mediate	250	1 05	145	207	
Not ou out out of					: Second	200	100	エグロ	201	
South Carolina		1			: early	300	100	200	260	
So. Atlantic	<u>,</u>	5			: All	281	91	190	254	
					: Second	-	*			
Louisiana	-				: early	180	.80	100	129	
Texas					: Early	170	70	100		
W. S. Central:					: A71	172	72	100	137	
			-	,	:					
Oregon	150	100	50	5.0	:					
Other Chotes	7.70	- 25	r.c		:		;	1.20		
Other States :	130	75	55	5.3	:					
United States	139	73	66	. 5.9	: : All	202	78	124	176	

I/ Commercial areas. The States shown produce about 80 percent of the commercial beet acreage used for growing beets for processing. The regional averages are for the States shown. The following other States collectively produce the remaining 20 percent of the total acreage for processing: California, Colorado, Delaware, Georgia, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, Utah, Virginia, and Washington.

^{2/} Bushels of approximately 52 pounds.

CABBAGE: Labor requirements per acre 1/

	F	For proce	ssi.ng	2/	,	For f	resh cons	umptio	n
State		an hours		1930-39:			Man hours per acre		1930-39 average
	:	Pre- :	Har-	yield:	group-	:	: Pre- :	Har⊷:	yield
	Total	harvest:		per :	ing		:harvest:		per acre
	Hours	Hours	Hours	Tons :	Group	Hours		Hours	Tons
New York	95 ·	45	50	9.4	Inter- mediate Late	110	45 45	65 55	9.2 8.7
New Jersey				:	Inter- mediate	90	50	40	5.9
Pennsylvania	:			:	Late	100	50	50	7.7
Mid. Atlantic	95	45	50	9.4	All	9 9	47	52	8.2
Ohio	100	, · 55	45	7.6	Inter- mediate Late	100 105	60 55	40 50	6.0 7.1
Indiana	90	55	35	6.1	Late	100	. 55	45	6.5
Illinois	90	55	3 5	6.1	Inter- mediate	105	60	45	6.3
Michigan	95	50	45	7.6	Late	100	50	50	7.0
Wisconsin	90	50	40	<u>6.7</u>	Late	100	50	50	7.1
E.N.Central	_ 92	52	40	6.8	All	101	52	49	6.9
Minnesota	90	50	40		Inter-	95	50	45	6.1
Iowa				:	mediate Inter-	100	55	45	5.9
Missouri				3	mediate	95	55	40	5.1
W.N.Central	90	50	40	6.6	All	96	52	44	5.8

⁻ Continued -

CABBAGE: Labor requirements per acre 1/ - Continued

	For processing 2/	•	For fr	resh cons	umptio	n , *
State "	Man hours :1950-59 per acre :average	Seasonal	: pe	n hours er acre		1930-39 average
	: : Fre- : Har-: yield :Total:harvest: vest: per	group-	: :	Pre- harvest	vest:	per
<u>.</u>	: : : : : acre : Hours Hours Tons	CTOUD	Hours	Hours	Hours	acre Tons
Maryland	:	: Inter- : mediate	120	80	40	4.9
Virginia	: :	Second early	130	95	3 5	4.3
-	.	: Inter- : mediate : Fall	140 125	100 90	40 35	4.6 4.2
North Carolina	, ,	Second early	115	70	45	4.4
	· · · · · · · · · · · · · · · · · · ·	: Inter- : mediate : Fall	120	65 65	55 65	5.4 3/6.5
South Carolina		Second early Fall	145 130	80 7 5	65 55	8.2. 7.0
Georgia		Second early Inter-	130	80	50	4.9
Florida		<pre>: mediate : Early</pre>	120 145	75 100	45 45	4.6 5.8
So. Atlantic		: All	132	85	47	5.4
Kentucky		Inter- mediate	125	70	55	5.4
Tennessee		Inter- mediate	J.30	7 0	60	6.0
Alabama		Second early	125	65	60	5.7
Mississippi :		Sedond early	120	65	55	4.9
E.S.Central		All	124	67	57	5:.4

CABBAGE: Labor requirements per acre 1/- Continued

	Fo	r proces	ssing 2	/	Гоз	r fresh	consum	otion	
	Ma	n hours		1930-39			n hours		1930-39
State		r acre	2 3	average:	Seasonal	:pe	r acre		average
			Har-:	yield:	group-	: :	Pre- :	Har-	
	Total	harvest		per acre	ing	:Total:	harvest		per acre
	Hours	Hours	Hours		Group	Hours		Hours	Tons
	· Hour o	110010	1100.10	10.10	<u>ar cab</u>	1,000	HOULE	HOLLIS	TOTTO
				:	Second				
Louisiana	:			:	: early	120	70	50	3.7
Texas			s Total		: Early	100	50	50	4.7
Texas	•				Tal.TA	100	50	30	401
W.S.Central					LLA	102	52	50	4.6
		50	0.0	700		700		F10	-
Colorado	110	50	60	10.2	Late	120	50	70	10.5
					: Inter-				
New Mexico				:	mediate	100	55	45	5.6
				:					
Utah					: Late	130	50	80	13.3
Mountain	110	50	60	10.2	All	117	50	67	10.1
				:	: Inter-				
Washington	105	50	55	8,9	: mediate	85	50	35	4.4
Oregon					Late	105	50	55	7.6
California			-		: Early	85	35	50	6.6
/: Pacific	1 05	50	55	9.0	· All	88	39	49	6.6
I Ch Calle IL C	100		00_	O no	A)-inda		- 00		0.0
Other States 2/	90	50	40	6.7					
United States	94	49	45	7.0	: All	109	59	50	6.4
our red praces	94	49	45	7.0	RII.	709	อย	50	0.4

^{1/} Commercial areas.

^{2/} The States listed produce about 90 percent of the commercial cabbage acreage grown for processing. The other 10 percent is grown in Iowa, Maryland, New Jersey, North Carolina, Oregon, Pennsylvania, Tennessee, Texas, Utah, and Virginia.

^{3/} Short-time average.

CANTALOUPES: Labor requirements per acre 1/

		·			
	Man	hours per	acre	: 1930-39 :	
Ct - L ·	·	····		: average :	C 7
State	. m.l7	: Pre- :		: yield :	Seasonal
	rotal	:harvest:	Harvest		grouping
	TI COLUMN	: :	YTanna	: acre :	Char
	Hours	Hours	Hours	Crates 2/	Group
NT Tourist of the second		50	0.0	704	7-1-
New Jersey	110	50	60	104	<u> </u>
Ohio	115	60	55	98 [:]	Låte
Indiana	90	50	40	79 ,	Intermediate
Illinois	95	50	45	69,	Intermediate
Michigan	110	50	60	114	Late
East North Central	98	50	48	92	All
	•		-10		d k da da
Iowa	100	55	45	85	Late
Kansas	105	60	45	84	Late
West North Central		56	45	85	Late
	:				
Delaware	115	60	55	110	Intermediate
Maryland	110	60	50	97	Intermediate ·
North Carolina	110	70	40	72	Second early
	115	70	45	76	Second early
Georgia	: 110,		, 40	GO	Second early
Florida	: 110	7.0	40	62	Early
South Atlantic	111	66	45	85	All
and the second second					
Tennessee	115	70	45	3£ 73	Intermediate
	:				
	105	7 0 .	.35,	. 58	Second early
Oklahoma	: 110	7 0	40	7 2	Second early
Texas	80	45	35	63	Second early
West South Central	94	58	· - 36	63	Second early
Colorado	: 140	. 65	.75.	154	Iate
New Mexico	125	65	60	115	Intermediate
Arizona	135	. 65	70.	136	Second early
Utah Nevada	130	65 65	65 55	3/ 125	Late
Nevada Liountain	120	65 65	55	106	Second early
Hourtoalii.	136	. 65	*71	141	All
Washington	125	50	7 5	146	Intermediate
Oregon	135	50 55	80	146 158	Intermediate
California	115	55 40	7 5	143	Early (Imperial)
ouritor file	140	40	100	183	Second early
Pacific	122	41	81	153	All
		-TL.	0.1	700	A.L.J.
United States	116	54	62	121	All
			- 02		

^{1/} Commercial areas. Includes Honey Ball, Honey melon, Casaba, and Persian melons not separately reported.
2/ Crate 60 pounds (standard).
3/ Short-time average.

CARROTS: Labor requirements per acre 1/

	Mar	hours per	r acre	: 1930-39 :	,
State	Total	: Pre- : harvest	: Harvest	: average :	Seasonal grouping
	Hours	Hours	Hours	Bushels 2/	Group
77 77 7	52.5	85	240	475	Late
New Jersey	300	95	205	290	Intermediate
Pennsylvania	285	- 85	200	404	Late
Middle Atlantic	311	89	222	400	All
Ohio	335	85	250	510	Late
Indiana	300	85	215	425	Late
Illinois	300	85	215	427	Late
Michigan	365	90	275	552	Late
East North Central	342	87	255	509	Late
Minnesota	280	85	195	387	Late
Virginia	305	1 05	200	. 254	Intermediate
North Carolina	290	130	160	200	Intermediate
South Atlantic	294	123	171	2 30	All
Mississippi	214	100	114	114	Second early
Louisiana	220	100	120	120	Second early
Texas	240	90	150	160	Early
West South Central	2.35	92	143	152	All

⁻ Continued -

CARROTTS: Labor requirements per acre 1/- Continued

:	Man	hours pe	r acre	: 1930-39 :	
State :	Total		: Harvest	: average : : yield :	Seasonal grouping
		:	:	: per acre :	
:	Hours	Hours	Hours	Bushels 2/	Group
Coļorado	255	120	135	220	Iate
Arizona	300	110	190	285	Early
	300	105	195	3/ 275	Second early
			······································		
Mountain :	289	110	179	267	All
:					
Washington	350	130	220	400	Iate
Ovegon	375	130	245	448	Late
California	370	80	290	478	Second early
:	375	70	305	508	Fall
:					
Pacific :	372	79	293	491	All
United States :	324	86	2 38	3 58	All

^{1/} Commercial areas. Includes undetermined quantities used for processing in some States.

The early carrot crop is usually handled as bunched carrots, and the late, or storage crop, is usually handled in bulk or in crates, baskets and sacks. Sometimes the early pulling, in reality a thinning process, is marketed in bunches, and the remainder is marketed in bulk.

^{2/} Bushels of 50 pounds.

^{3/ 1939} yield.

CAULIFLOVER: Labor requirements per acre 1/

	Han h	ours per	acre	: 1930-39 : average :	
State :		7 Marie Marie Marie Very Marie Ve	A P	: yield :	Seasonal
•	:	Pro-	:	: per :	grouping
	Total:	harvest	: Farvest	: acre :	
	Hours	Hours	Hours	Crates 2/	Group
:				,	
Hew York	320	230	90	181	Late
	31.0	200	110	249	Long Island Late
1		200	220	5.0	There In The Co
New Jersey	315	230	35	171	Late /
Middle Atlantic	313	2.15	98	214	Tate
			,	(,	
				2.17	
Texas	175	80	95	184	Fall & winter
	:				
Colorado	190	80	110	249	Late
Arizona	200	80	120	264	Fall & winter
Utah	295	120	175	3/415	Late
Mountain	195	81	114	257	All
Washington	230	100	1 30	333	Late
Oregon	220	100-	120	291	Fall
	205	120	85	174	Spring
California	165	50	115	264	Fall & winter
	175	55	120 .	281	Spring
Pacific	175	57	. 118	275	All.
United States	224	113	111	255	All

^{1/} Commercial area.

^{2/} In terms of crates containing approximately 37 pounds (12 bushels).

^{3/ 1928-37} average.

CELLERY: Labor requirements per acre 1/

The second secon		in a standard and a pass of proceeding place (the collection)	- Marie Carrier Laguage (Marie Laguage)		
	Man	hours per	acre	1930-39	••
	Survey of the Company of the Company	•		average	
State	:	: Pre-	:	yield	grouping
	: Total		: Harvest:		
	Hours	Hours	Hours	Crates 2	
	:				
New York	370	220	150	320	Intermediate
	355	190	165	326	Late
Hew Jersey	330	220	110	214	Intermediate
	295	190	105	206	Late
Pennsylvania	315	185	130	, 2 56	Late
Middle Atlantic	342	196	146	291	All
					21. d. d.
Ohio	305	180	125	3/253	Intermediate
	280	170	110	218	Late
Indiana	295	175	120	236	Intermediate
	265	165	100	200	Late
Michigan '	315	185	130	271	Intermediate
	285	175	110	217	Late
E. N. Central	293	177	116	235	All
gad					
Florida	425	225	200	291	Early
	500	275	225	277	Second early
Colorado	300	195	105	236	Late
Utah	285	175	110	224	Late
Mountain	296	190	106	233	Late
Washington	350	150	200	438	Late
Oregon	380	185	195	434	Late
California :	240	110	130	185	Fall and winter
	310 340	120 125	190 215	427 526	Early
Pacific :	275	118	157	279	Second early All
2000000	270	770	±0	ω <i>1</i> υ	N.L.L.
United States	324	171	153	272	All

^{1/} Commercial areas.

^{2/} Two-thirds size (New York) crate 90 pounds.

^{3/} Short-time average.

CUCUMBERS: Labor requirements per acre 1/

	j	For proc	essing		For fresh consumption					
State	1	Jan hour	s :	1930-39 average		: Man	hours	\$ 0:	1930-39	
ا پروون منعه	Total	: Pre- :	Har-:	yield :	group-	: :	Pre- : ervest	Har- vest	yield	
				Bushels 2	Group					2
Massachusetts	115	45	70	128	; ;			-		
		e, i			422					
New York	105	45	60	96	Late	120	45	75	121	
New Jersey			,		Inter-	150	7 0	80	160	
Mid.Atlantic	105	45	60	96	All	134	57	77	144	
Ohio	80	40	40	54	Inter- mediate	80	40	_ 40	<u>3</u> / 47	
Indiana 💮	7 5	40	35	48	1 1					
Illinois	82	40	42	58	Inter- mediate	90	40	50	64	
Michigan -	90	50	40	56	Late	115	50	65	89	be
Wisconsin	90	50	40	55					4	
E.W.Central	87	48	39	54	All	98	43	55	7 3	
				:						
Miĥnesota	80	. 40	40	54 :	2.0			138	e Notes	
Iowa	. 72	40	32	44			-			
Missouri	65	40	25	33						
W.N.Central :	71	40	31.	45		• •				
		e.,			garage (a)	• * * ye.~.				

⁻ Continued -

CUCUMBERS: Labor requirements per acre 1/- Continued

	······································	For p	rocessi	ng		For fre	sh cons	umptic	on	-, -
State	F		e : : Har-:	yield	Seasonal group-	pe	n hours r acre: Pre-:	Har-		е
	Total	narvest	: vest:	per acre	ing	Total	harvest:		acre	
	Hours	Hours	Hours	Bushels 2/	Group	Hours	Hours	Hours	Bushels	2/
Delaware					Inter- mediate	115	50 ·	65	109	~*.
Maryland	115	60	55	86	Inter- mediate	130	60	70	114	
Virginia	95	50	45	72	Second early	130	70	60	96	
North Carolina	110	5°0	60	100	Second early	110	60	50	71	
South Carolina	95	50	45		Second early	110	60	50	70	
Georgia					Early Late	100 80	50 45	50 35	72 50	
Florida					Early Fall	140 115	. 80 60	60 55	88 7 7	-
So. Atlantic	104	52,	52	85	All	118	63	55	81	
Alabama					Harly	150	50	100	170	41.0
Arkansas					Second early	115	60	55	80	
Louisiana	85	50	3 5	50	Early Late	115 115	60 50	55 65	79 92	
Texas	80	50	30		Early Fall	100 80	60 50	40 30	59 3/ 34	
W.S.Central	80	50	30		All	105	58	47	64	
Colorado	110	45	65				agangalan dalam nagana manan manan			ager contribute

CUCUMBERS: Labor requirements per acre 1/ - Continued

	:	For pr	ocessir	ig	: Fo	For fresh consumption				
	*			193039						
State	:	per ac	re :	average	:Seasonal	L:pe	er acre	- (average	
	:	Pr'e→	: Har-:	yield	: group-	:	: Pre-	: Har-	yield	
•	:Total:	harvest	: vest:	per	: ing	:Total:	harvest	: vest:	per	
The second	•	·		acre				,	acre	
	: Hours	Hours							Bushels 2/	
Washington	: 115	50	65	164	:			•		
Oregon	: 115	50	. 65	166	: :			:		
California	110	30	80	192	: Early	125	40	85	166	
Pacific	: 132	38	74	182	: Early	125	40	85	166	
All other 1/	: 90	50	40	58	: :			•		
United States	: : 87	46	41	66	: All	119	59	60	92	

L/ Commercial areas. The States listed produced in 1939 about 73 percent of the commercial cucumber acreage for processing. The remaining 27 percent was produced in Alabama, Arizona, Arkansas, Connecticut, Delaware, Florida, Georgia, Idaho, Kentucky, Maine, Mississippi, Nebraska, New Jersey, Oklahoma, Pennsylvania, Utah, and Wyoming.

From 0.5 to 0.7 hour is usually required to harvest and deliver to market or processing plant a bushel of cucumbers. Under most favorable conditions the requirement is only 0.4 hour per bushel. Sometimes the average is about 0.8 hour per bushel.

^{2/} Bushels of 48 pounds.

^{3/} Short-time average.

ONIONS: Labor requirements per acre 1/

				-	
	Man h	 wurs per a	cre	:	
State .				: 1930-39 :	
builde .	77 1 77			: average :	
	: Total :	: harvest	: Harvest	: yield::	2 -
· ·	: :			: per acre:	
	: Hours	Hours 2/	Hours	Sacks 3/-	Group
	:				
Massachusetts	: 375	175	200	222	Late
49.0		······································			
New York	: 380	180	200	237	Iate
New Jersey	: 305	160	145	132	Intermediate
Pennsylvania	: 320	160	160	158	Late
Middle Atlantic	: 366	176	190	212	All
		270	200	~1.~	d hala the
Ohio	: 265	140	125	136	Late
Indiana	: 280	140	140	158	Late
Illinois	: 245	135	110	108	Late
Michigan	: 280	140	140	177	Late
Wisconsin	: 280	150	130	164	Late
East North Central		141	137	162	Iate .
Date Worth Octional	1 210	丁-47	701	IUA	iptuc.
Minnesota	: 280	140	- 140	183 ,	Late
Iowa	: - 265	140	120	183 , - 149 -	Intermediate
10W4 .	: 250	120			
West North Central			130	171	Late
Meso Not ou central	: 270	139	137	174	All
	•				
Virginia	: 245	3.50	0.5	77.0	Tech come diab.
ATI STITA	:, 245	15.0	95	73	Intermediate
·					
	:				
Kentucky'	: 250	150	100	114 .	Intermediate -
	•				
·					
Louisiana	: 235	175	60	45	Early (Bermuda)
Oklahoma	: 205	135	70	4/59	Intermediate
Texas	: 220	170	50	42	Early (Bermuda)
	: 190	135	55	44	N. Intermediate
West Cooks a colored					
West South Central	:_214	162	52	43	All
Tdoba	. 17.4	7.00	7.05	860	T 1
Idaho	: 345	160	185	308	Iate
Colorado	: 290	150	140	181	Late
Utah	: 320	150	170	248	Labe
Nevada	: 295	160	135	177	Iate
Mountain	: 311	153	158	186	Iate

ONIONS: Labor requirements per acre 1/ - Continued

	Man	hours' per	acre	1930-39	:
State	: Total :	Pre- : harvest :	Harvest:		
	: 10001	. Hai vest ;	nar vesu :	per acre	
yes	Hours	Hours 2/	Hours	Sacks 3/	Group
Washington	t : 295	175	120	244	Intermediate (Walla Walla)
	280	150	130	258	Late
Oregon	240	110	130	260	Late
California	280 270 240	170 120 110	110 150 130	139 218 179	Early (Bermuda) Intermediate Late
Pacific	254	124	130	204	All
United States	260	156	104	116	All

^{1/} Commercial producing areas.

^{2/} Preharvest man hours of labor vary considerably according to the method of planting. Three principal methods are used: 1. Sowing seed directly in the row in the field. This method requires a minimum of labor. Late onion production is usually planted by this method;
2. Sowing seed in an especially prepared seedbed and transplanting. This procedure is generally followed in sections where onions for early shipment are produced, and requires considerably more labor than method 1; 3. The intermediate onion crop is produced chiefly from transplanted seedlings and dry sets. This method requires about the same amount of labor as method 2.

^{3/} Sacks of 100 pounds.

^{4/} Short-time average.

PEAS, GREEN: Labor requirements per acre 1/

					<u> </u>				
		Process	ed <u>2</u> /		:	Fre	sh ma:	rket	
		Ian hour		:1930-39		Man hou		:1930-39	
State		per acre		:average		per acr		average	
		harvest:		: yield				•	: Seasonal
	TOUAL	narvesu:		: per	·	:harvest:		acre	grouping
•	Hours			Pounds	:Hours			Bushels	Group
					:				
Maine	30	15	15	1,900	:				
	:				:				
Name Vanala	25	30	י ר	; 7 900	:	7.5	705		Tobo
New York New Jersey	25	10	15	1,280	: 140	1 5 1 5	125 85	83 5 7	Late Inter-
wew berney	•				• 100	70	03	31	mediate
Pennsylvania	30	12	18	1,750	:				
Mid.Atlantic		10	15	1,330	: 128	15	113	74	All
					:				
	:				:				
Ohio	20	10	10	1,210	•				
Indiana :	20	8	12	1,700	:				
Illinois similaring si	18 20	8 1 0	10	1,390 1,290	:				
Wisconsin	20	10	10	1,330	•	7. ~			
E.N.Central		10	10	1,347	<u>:</u> :				
I NOCHOTAL	- 20	10	10	1,041	•				
					:				
Minnesota	22	10	12	1,500	:				10
Iowa ·	20	8	12	1,650	:				
W.N.Central	22	10	12	1,512	:			·	
y .* *								•	
Delaware	20	10	10	1,290	:				
Maryland		10	12	1,570	: 95	1 5	80	53	Intermediate
Virginia :		12	13	1,820	: 100	15	85		Intermediate
North Carolina					: 120	20	100		Intermediate
South Carolina					: 100	20	80		Second early
Florida					: 120	20	100	65 1	Early
So.Atlantic:	22	10	12	1,576	: 110	19	91	59 _I	All
:			•		:				
Alabama					: 125	25	7.00	3/65	Second early
Mississippi					: 130	%5 30	100		Second early
E.S.Central					: 130	30	100		Second early
D. D. OCHUTAL					9 T 00		700	00 1	Second earry
•					:				
Louisiana					: 120	30	90	54 5	Second early
Texas					: 110	20.	90		Early
W.S.Central:					: 113	23	90		<u> </u>

PEAS, GREEN: Labor requirements per acre 1/- Continued

		Process	sed <u>2</u>	/	:	F	resh m	arket	
	:	Han hou	ırs	:1930-39		an hours		1930-39	
State, :		per acr							e:Seasonal
1				yield		: Pre- :			:grouping
		harvest:	ves			:harvest:	vest:		•
	77		;	: acre		:	;	acre	
	Hours	Hours	Hour	s Pounds	Hours	Hours	Hours	Bushels	Group
Idaho				•	140 120	3 0 2 5	110 95	<u>3/106</u> 90	Intermediate
Colorado	35	20	15	1,720	: 115	25	90	. 82	Late
New Mexico					110	25	85	<u>3</u> / 70	Late
Arizona	-			- · · · · · · · · · · · · · · · · · · ·	180	25		3/132	
Utah :	45	20	25	2,440	: 190	25	165	3/140	Late
Mountain	42	20	22	2,272	: 124	25	99	91	All
					•				
Washington	30	5	25	2,230	220	20	200	188-	Late
Oregon	18	5	1 3	3/1,420	160	20	140	118	Iate
California	,				,				
Imperial	: 50 :	30	20	2,210	: 135	45 45	90 55	87 4 3	Early Late
Other .	3			; 	120 150	45 45	75 105	68 101	Second early
Pacific :	26	6	.,.20	1,926	: 132	. 43	89	80	All
Other <u>2</u> /	40	25	15		:	AL Lik	1		
United States:	24	10	14	1,500	126	33	93	77	All

^{1/} Commercial producing areas.

J.

^{2/} The States listed produced in 1939 about 95 percent of the commercial pea acreage used for processing. The remaining 5 percent was produced in Arkansas, Idaho, Kansas, Montana, Nebraska, New Jersey, Oklahoma, Tennessee, Texas and Wyoming.

^{3/} Short-time average.

PEPPERS (GREEN, PIMIENTO, CHILLI): Labor requirements per acre 1/

				3050 50	
	Man	hours per	acre	: 1930-39	
State	-			: average	: Seasonal
	: M-4-7			: yield	: grouping
	: Total :			: per acre	:
	Hours	Hours	Hours	Bushels 2/	Group
••••		GREE	N PEPPERS		
New Jersey	150	90	60	249	Intermediate
North Carolina	120	60		172	Intermediate
0 11 0 71		60	60		
0		60	65	198	Second early
Georgia Florida	34.34.0	60	50	152	Second early
TOL TOG	235	160	75	216	Fall
Couth 147 - 4.	265	180	85	251	Early
South Atlantic :	225	148	77	231	All
Mississippi	130	90	40	99	Second early
THE STOP THE	700	30	40		Decond ear Ly
Louisiana	170	110	60	182	Second early
Texas	120	80	40	119	Fall
W. S. Central :	139	91	48	151	All
California :	125	55	70	279	Intermediate
:					
United States :	177	111	66	227	All
:					
ar II		The care		Tarm o a	
:		PROC	ESSED PIMI		
Commis	0.0	22		(Tons)	
Georgia :	90	60	30	1.25	
California :	110	55	55	3.08	
·	710		აა	3.00	
United States :	91	60	31.	1.46	
:		***************************************			
:					
:		CHI	LLI PEPPER	S	
:				(Pounds)	
New Mexico 3/ :	284	195	889	4/ 443	

^{1/} Commercial areas.
2/ Bushels of 25 pounds net.
3/ Results of study reported in New Mexico Agricultural Experiment
Station Bulletin No. 215, June, 1933.

^{4/} Air dry weight.

POTATOES (SWEET): Labor requirements per acre 1/

				7.0.70 - 70
	Ma	an hours per	acre	
State		Pre→		average
		Pre-:	Unwroat	yield
		Hours	Harvest:	
	Hours	10012	Hours	Eushels
NT-max Table 1	7.00	70	0.0	, , , , , ,
New Jersey	160	70	90	141
Indiana	110 '	٨٢	0.5	7.00
Illinois	100	45	65	102
East North Central	103	45 45	55 58	85 92
mast North Central	709	45	50	92
Iowa	100	45	55	86
1	95	45 45	50 50	79
Kansas	110	5.5	55	
West North Central	98	46	52.	82
west north dentral	,	40	J	02
Delaware	135	70	65	123
7.7 7 3	: 140	70	70	132
***	130	70	60	111
	120	70	50	96
m 11	120	70	50	85
	115	70	45	72
Florida	: 110	70	40	66
South Atlantic	119	70	49	87
Kentucky	: 110	65	45	83
•	112	65	47	88
Alabama	: 114	70	44	80
Mississippi		70	45	87
East South Central	114	69	45	84
				,
	105	65	40	73
Louisiana	110	70	40	70
Oklahoma :		65	35	61
Texas	105	65	40	71
West South Central :	107	67	40	70
-				
California	110	50	60	108
United States :	114	68 .	46	83

^{1/} Includes yams. Labor for growing sweetpotato plants and for marketing the crop is included. About 94 percent of the California acreage was irrigated.

POTATOES (WHITE): Labor requirements per acre 1/

p ·	Man hours per acre				1 1930-39
State	Total		;	Harvest	-: average : yield
		harvest	:		: per acre
	Hours	Hours		Hours	Bushels
Maine	:	4.4			0.07
·	84	44		40	263
New Hampshire Vermont	: 24	48		: 36	156
Massachusetts	83 84	48		35 34	136
Rhode Island	84	50			140 177
Connecticut	80	46 .		33 36	163
New England	84	44		<u>36</u> 39	232
Mew Fifstand	. 84	45		29	
New York	73	38		35	126
New Jersey	65	29		36	168
Pennsylvania	85	45		40	120
Middle Atlantic	77	40		37	128
	, 	-	·		
Ohio	68	40 .	;	28	98
Indiana	60	33		27	87
Illinois	54	29		25	76
Michigan	70	40		30	95
Wisconsin	71	42		29	85
East North Central	68	39		29	90
Minnesota	51	29		22	76
Iowa - ·	51	29	•	22	77
Missouri	5 <u>1</u>	28		23	77
North Dakota	48	26		22	73
South Dakota,	42	24		18	53
Nebraska	43	23		20	81
Kansas	49	- 26	*.	23	· · · 78
West North Central	49	27		22	75
P-1	30	7.0			0.5
Delaware .	62	36 70		26	37
Maryland	65.	38		27	100
Virginia	67	38		29	112
West Virginia	81	51		30	.79
North Carolina	73	38 46		35	100
South Carolina	82	46 46		36	115
Georgia	71	46		25	66
florida	66	35		31	111
South Atlantic .	71	40		.31	101

POTATOES (WHITE:) Labor requirements per acre 1/- Continued

State	Total	n hours per servest : Hours)	: 1930-39 : average : yield : per acre Bushels	
Kentucky	.59	33	26	75	
Tennessee	59	33	26	68	
Alabama	71	44	27	87	
Mississippi	64	40	24	71	
East South Central :	63	37	26	76	
Andrew	0.5	4.0	0.5	n e	
Arkansas Louisiana	65	40	25	73	
Oklahoma	63	40	23	61	
Texas	58	35 35	23	71	
West South Central	58 61	35 38	23 23	64 67	
west bouth central	0.7	50	<i>د</i> ی	01	
Montana	52	27	25	90	
Idaho	76	36	40	224	
Wyoming	54	29	25	83	
Colorado	-64	34	30	143	
New Mexico		45	25	72	
Arizona	71	45	26	84	
Utah '	78	46	32	152	
Nevada	71	40	31	144	
Mountain	69	35	34	165	
	,				
Washington	83	45	3 8	170	
Oregon -	90	50	40	151	
California :	103	48	55	243	
Pacific :	94	48	46	190	
United States	68	37	31	112	

I/ "Harvest hours" include whatever sorting and grading was done by the farmer, and hauling to market. In some cases the labor for storing potatoes on the farm and later hauling to market is included. In the principal commercial areas where yields are good one man working 10 hours will pick up from 80 to 125 bushels, depending on yield, size of potatoes, condition of land, type of digger used, and disposal of the potatoes by the "picker." In low producing areas where potatoes are not raised primarily for market a day's work in picking up is usually 50 to 60 bushels. In commercial areas, picking up generally represents 40 to 50 percent of the hours devoted to harvesting, and marketing the crop.

According to the 1940 census, the following percentages of the potato acreages were irrigated: Montana, 55 percent; Idaho, 70 percent; Wyoming, 66 percent; Colorado, 94 percent; New Mexico, 50 percent; Arizon, 75 percent; Utah, 97 percent; Nevada, 99 percent; Washington, 500 percent; Oregon, 65 percent; and California, 95 percent.

SPINACH: Labor requirements per acre 1/

	Man	hours pe	סמים ביית	: 1930-39 : average	: Seasonal
State		Pre-	: Harvest	: yield	: grouping
. "	: Hours	Hours	Hours	Bushels 2/	Group
	:	FRES	SH CONSULIPE	ION	Carand cond-
New Jersey	: 155	55	100 :	345	Second early and Late
Pennsylvania	: 145	55	90 ,	306	Second early and Late
Mid. Atlantic	: 150	55	95 ·	32.7	All
Illinois	: : 80	45	: 35 <i>;</i>	139	Second early and Late
Lissouri	: 110	40	70	236	Second early and
Maryland	120	45	75	251	Second early and Late
<i>l</i> irginia	: 140	50	90	294	Fall and Second early
North Carolina	120	50	70	3/ 220	Early
South Carolina	120	50	70	3/ 206	Farly
So. Atlantic	: 135	49	86	277	All
rkansas	: 110	50	60	172	Second early and Late
Louisiana	: 80	50	30	92	Early
Oklahoma	105	40	65	190	Second early and Late
lexas	: 100	40	60	161	Early
W. S. Central	: 99	4]	58	160	LIA
Colorado	90	50	40	128	Intermediate
lashington	145	35	, llo	359	Second early and Late
California	1.85	50	1 35	675	Early
Pacific	: 176	47	129	584	<u> </u>
United States	: 115	44	71	206	All

SPINACH: Labor requirements per acre 1/- Continued

:	Ma	: 1930-39 : average		
State :		: Pre- :		: yield
	Total	: harvest :	Harvest	: per acre
	Hours	Hours	Hours	Tons
·				
Maryland	90	40	50	2.4
Arkansas :	65	30	3 5	3/ 2.0
Oklahoma :	65	30	35	3/ 2.0 3/ 2.0
Texas	65	35	30	4/1.3
California :	80	40	40	3.5
:				
United States:	74	37	37	3.1

^{1/} Commercial producing areas.

^{2/} Average weight of 18 pounds.

^{3/} Assumed.

^{4/} Short-time average.

SWEET CORN: Labor requirements per acre 1/

, ;	Ma	n hours per a	: 1930-39 : average	
State	Total	: Pre- : harvest :	Harvest	: yield
	7.7	Hours	Hours	: per acre Tons
	11001 5	<u>nour o</u>	Hours	10115
:		707 P.20 0		
		FOR PROCI	ESSING	
Maine	110	50	60	3.7
New Hampshire :	101	50	51	3.2
Jermont :	95	50	45	2.6
New England :	108	50	58	3.6
		,	0	0:-
Vew York	50	25	25	2.1
Pennsylvania Middle Atlantic	47	25	22	1.8
MITGUTE APTRIPTE	49	25	24	2.0
Ohio .	40	15	25	1.9
Indiana :	37	1 5	22	1.7
Illinois	40	12	28	2:2
lichigan :	35	20	15	1.0
Visconsin :	48	20	28	2.2
East North Central:	40	15	25	2.0
:				
linnesota :	47	17	30	2.5
[owa :	42	12	30	2,2
Vebraska :	27	1. 1.0	17	1.3
West North Central:	45	15	30	2.3
Delaware	45	25	20	2.3
Saryland :	43	25	18	1.8
South Atlantic :	43	25	18	1.8
bodon notanoto		~0	10	1.0
l'ennessee :	58	23	35	2.8
lashington :	60	30	30	2.4
Oregon :	53	28	25	1.7
Pacific :	57	29	28	2.0
· · · · · · · · · · · · · · · · · · ·				
All other States 2/:	55	25	30	2.3
:				
United States :	45	19	26	2.1
•				
		FOR HARI	ርጉም	
:		ron inin	77.17	
Vew Jersey	50	30	20	4,740 ears

^{1/} Major commercial States produce about 98.5 percent of sweet corn processed.

^{2/} All other States - Arkansas, Colorado, Idaho, Kansas, Kentucky, Missouri, Montana, New Jersey, Oklahoma, South Dakota, Texas, Utah, Virginia, and Wyoming.

TOMATOLS: Labor requirements per acre $\underline{1}$ /

	:				Distriction of the continuous of the continuou				
		or proc	essing	er e		For fr	resh mat	rket	
State				1930-39			in hour		:1930-39
o va te		er acre	linn.	average:	Seasonal group—	# P	er acre	. IIox	average
	Total:	harvest:	vest:	per :			harvest		
	:		<u>:</u>	acre :		:			acre
	Hours	Hours	Hours	Tons	Group	Hours	Hours	Hours	<u>Eushels</u>
	•					ż	4		
New York	: 137	41	96	7.4	Late	185	44-	141	217
:				:	Inter-				
New Jersey	115	44	71	5.1	mediate	195	66	129	183
Down ovelerous se	·			•					
Pennsylvania :	115	47	68	4.8	Late	175	50	125	180
									
Mid. Atlantic:	122	44	78	5.7 :	All	189	56	133	194
	7. j					0			
Ohio	115	38	77		Inter.	& 160	42	118	168
	,			:					
Indiana	95	36	59	4.2	Late	150	40	110	108
					Inter.&				
Illinois	90	36	54	3,5 :	Late	130	40	90	60
Michigan	105	28 -	77	5.8 s	Late	120	30	90	152
		·							
E.N.Central	100	36	64	4.5	All	141	38	103	115
ingrigo Cito Lag.	100	- 50	04:	42 6 O S	Janiel.		50	TO2	110
		,		•			,		
Iowa	85	32	53	3.6	Late	145	35	110	107
					Inter-	÷"			
Missouri	85	58	32		mediate	· 165	55	110	90
W.N.Central	85	45	40	2.3	ATI	163	53	110	92

TOMATOES: Labor requirements per acre 1/ - Continued

	:	<u> </u>			:				
	:	For pro					resh mar		
Ctcto		Man hour		1930-39			Man hour		:1930-39
State					:Seasonal: : group-:				
					ing:				
	;	TT		acre :		174.	:		: acre
	: Hours	Hours	Hours	Tons	Group'	Hours	Hours	nours	Bushels
Delaware	: 98	48	50	3.3	Late	165	52	113	112
	:	•			: Inter-				
Maryland	• • 97	46	51	3.4	mediate	170	54	116	130
	: ,			:					
Virginia	: 97	52	45	2.8	Inter- mediate	175	61	114	126
, an Oansan	:	0.0	10		:	2.10	, <u>, , , , , , , , , , , , , , , , , , </u>		
North Carolina	:				: Inter- : mediate	765	81,	84	42
NOI OII CATOTILE	:				media de	702	O.T.	04	46
	:				Second				
South Carolina	3		,		early	180	85	95	63
	:				Second				
Georgia	:	•		:	early	170	£ .80	90	56
Florida	: :				All	190	84	106	96
	:								
So. Atlantic	: 97	48	49	3,2	All	184	- 80	104	94
	:								
Kentucky	: 105	61	44	2.4	: Late	170	63	107	89
	•	•		:	: Inter-				
Tennessee	: 100	62	38	2.1	: mediate	185	64	121	112
	:			:	;				
Mississippi	: :			,	Second early	200	79	121	111
	:								
E.S.Central	: 102	62	40	2,2	All	190	71	119	109
	• •				Inter-				
Arkansas	: 90	53	37	1.9	mediate	160	62	98	70
	:				Second				
Louisiana	:				early	195	70	125	85
Texas	:				All	750	55	95	73
ICAGO	:				4747	150	55	95	10
W.S.Central.	: 90	53	37	1.9	All	153	56	97	73

TOMATOES: Labor requirements per acre 1/ - Continued

6 ·	en e	to visit the	S. Service Contract C						
	:	For pr	ccessin	ig.		For fre	sh mar	ket	
	:	Han ho		1930-09			lan hou		:1930-39
State					Seasonal				average
					group-				
•		1 1 1 1 1 1 1 1 1		acre	111g	: 10001	mer A CO'O		acre
7 1					Group	Hours	Hours		Bushels
•	s .		. ,						
Colorado	165	81	. 84	6.0	Late	275	105	170	256
Utah	: 195	90	105	7.9	Late	235	120	115	107
	۶ <u></u>						·		
Mountain	: 187	88	99	7.3	Late	268	107	161	211
	• :								
Washington	:			i	: Late	250	95	155	221
Oregon	:			` '	Late	230	78	152	218
California	100	40	60	5.3	All	135	40	95	137
Po of fig.	100	40	60	5.3	. ^77	7 4 5	4.4	7.07	345
Pacific				0.0	: A <u>ll</u>	145	44	101	145
Other States 2/	:100	50	50	3.2					
United States	: 105	44	61	4.2	: All	169	62	107	110

^{1/} Commercial producing areas.

^{2/} The States listed harvested during 1930-39 about 95 percent of the total tomato acreage used for producing tomatoes for processing. The other 5 percent was grown in the following States: Connecticut, Florida, Georgia, Idaho, Kansas, Louisiana, Minnesota, Mississippi, Nebraska, New Mexico, North Carolina, Oklahoma, Oregon, South Carolina, Texas, Washington, West Virginia, and Visconsin.

WATERMELONS: Labor requirements per acre 1/

•			and the second	
3	Ma	n hours per	acre	: 1930-39
C+++-		D		: average
State	:	Pre- :		: number
	: Total :	harvest :	Harvest	of melons
	, ,	, u		: per acre
ijin + -	Hours	Hours	Hours	Number 2/
New Jersey	70	40	[*] 30	444
Indiana	: : 62	40	22	307
Illinois	60	40	20 .	294
East North Central	61	40	21 -	301
Hab o wer on occionate	<u> </u>	. 40	N.J.	001
Iowa	55	40	15	242
Missouri.	: 58	40	1.8	252
West North Central	58	40	18	250
T. 7		par 644	6 2	#FI O
Delaware	80	55	25	370
Maryland	80	55	25	338
Virginia	: 80	55	25	352
North Carolina	55	40	1.5	197
South Carolina	55	40	15	225
Georgia	55	40	1 5	230
Florida	55	35	20	269
South Atlantic	57	40	17	241
	}			
Alabama	60	40	20	, 297
Mississippi	60	40	20	259
East South Central	60	40	20	283
Arkansas	60	40.	20	248
Louisiana	65		20	
		45		<u>3</u> / 273
Oklahoma :	65	50	15	188
Texas	50	<u>35</u>	1.5	152
West South Central:	55	39	16	170
Colorado	75	50.	25	31.3
Arizona	75	50.	25	34.3
Mountain	75	50	25	330
Washington	70	40	30	455
Oregon :	65	35	30	414
California :	90 .	40	50	680
Pacific :	88	40	48	. 658
		1.0		0.05
United States :	59	40	1.9	263

^{1/} Commercial producing areas. These States probably grow about 90 percent of the commercial watermelon acreage. Most of the remaining 10 percent is produced in Tennessee, Kansas, Ohio, Kentucky, Nebraska, Pennsylvania, and New Mexico.

^{2/} The weight of melons of average size is about 25 pounds each.

^{3/} Short-time weight.

MAPLE PRODUCTS: Labor requirements per gallon of syrup and per pound of sugar 1/

2	Man hour	s per	: 1929-38 : average	: average
State :	Gallon :		: number	. 0
	of :	of	: of tree	s : of sap
2	syrup :	sugar	: tapped	: per tree
:	•		1,000	
	Hours -	Hours	trees	Gallons
Maine	2.8	• 38	260	5.7
New Hampshire	2.4	. 32	382	8.7
Vermont	2.4	. 32	5,428	8.4
Massachusetts	1.9	.25.	242	10,6
New England	2,4	₄ 32	6,312	8.4
				•
New York	2.0	.27	3,259	9.5
Pennsylvania	1,8	.24	650	11.7
Middle Atlantic	2.0	رکج	3,909	9.9
:				
Ohio	1.9	225	1,201	10.5
Michigan	2.0	.27	452	9.6
Wisconsin	2.0	.27	275	9.5
East North Central:	2.0	.26	1,928	10.1
Maryland	1.4	.20	58	17.6
United States	2,2	,29	12,207	9.2

1/ Considerable variation exists among different groves and seasons in the amount of sap required to make a gallon of syrup or a pound of sugar. Frequently, 32 gallons will make on gallon of syrup or $7\frac{1}{2}$ pounds of sugar. In many camps during some seasons, however, it will take as much as 50 gallons of sap to make one gallon of syrup, and one gallon of syrup will make from $6\frac{1}{2}$ to 9 pounds of sugar, depending on the kind made. It was assumed that 40 gallons of sap would make one gallon of syrup or 8 pounds of sugar, in converting average production of syrup and sugar to a sap basis for determining gallons of sap per tree. The range in yield per tree is very wide, possibly from very little to 40 or 50 gallons. The average per tree in many commercial camps ranges from 10 to 20 gallons.

The amount of labor for producing syrup or sugar varies tremendously, depending on the grove and the equipment. The range may be as wide as from around one hour to 10 hours per gallon of syrup. The requirements shown above are for average commercial groves and include labor for cutting and hauling wood, and for disposing of the syrup and sugar.

SORGO SYMUP: Labor requirements per acre 1/

State	N Total	ian hours per a : Pre- : : harvest :	icre Harvest	: 1929-38 : average : yield : per acre
	Hours	Hours	Hours	Gallons
	:	Sindynastratification#		
Indiana	: 120	40	80:	62
Illinois	120	40:	80.	61
East North Central	120	40	80	. 62
	:			
Iowa	155	40	115	92
Missouri	110	45	65	47
Kansas	105	45	60	42
West North Central	118	44	74	55
		4		-
Virginia	: 130	45	85	62
North Carolina	140	. 45	95	. 70
South Carolina	: 125	50	75	52
Georgia	140	<u>;::</u> 50	90	64
South Atlantic	: 137	48 .	89	64
	•			:
Kentucky	120	45	75	56
Tennessee	120	45	75	54
Alabama	150	55	95	69
Mississippi	150	50	100	75
East South Central	139	50	89	65
Arkansas	115	. 45	. 70 -	49
Oklahoma	100	45	55	35
Texas	100	45	70	49
West South Central	114	45	69	48
	:			59
United States	: 130	48	82	59

^{1/} Includes hours for cutting and hauling wood, and for making up and marketing syrup. Work on wood is included under preharvest, as most all of it is cut and gotten ready previous to the harvest season.

SUGAR BEETS: Labor requirements per acre 1/

				Control Control
	Ma	n hours per	acre	: 1929-38 : average
State	-	Pre-	•	: yield
	~	harvest	: Harvest	: per acre
	: Hours	Hours	Hours	
~ · · · · ·		поигь	nours	Tons
	•			•
Ohio	: 75	45	30	8.4
Indiana	: 80	45	35	2/8.0
Illinois	: 80	45	35	2/8.0
Michigan	90	50	40	7.9
Wisconsin	: 90	45	45	2/8:0
East North Central	: 86	48	38	8.0
	•			
	•		0	
Hinnesota	: 80	45	35	2/8.0
Iowa	80	45	35	2/8.0 2/8.0
North Dakota	. 75	40	35	$\frac{8}{2}$ / 8.0
South Dakota	. 75	40	35	2/8.0 2/8.0
Nebraska		55	35 35	12.6
Kansas	: 80	45	35	2/8.0
West North Central	: 84	49	35	10.4
	:		•	· 66 ~ 5
Montana	: 95	55	40	12.0
Idaho	: 90	55	35	11.3
Wyoming	: 115	65	50	12.0
Colorado	95.	55	40	12.4
Arizona	: 100	55	45	2/12.0
Utah	: 105	65	40	12.5
Nevada	110	60	50	2/12.0
Mountain	: 98	58	40	12.2
	: :			·
Washington	: 100	70	30	2/12.0
Oregon	: 85	55	30	2/12.0
California	90	50	40	13.0
Pacific	91	52	39	12.8
1401110	*		- 50	±N € U
United States	92	53	39	11.2

^{1/} Practically all of the sugar beet acreage in Nebraska and the States farther west is under irrigation. The hours shown are for growing, harvesting, and hauling the beets to the beet factories.

^{2/} Assumed yields.

SUGAR CANE: Labor requirements per acre 1/

	:	M		: 1929-38				
State	Cane	for sug	ar	Cane	for se	average yield per acre		
	: :	Pre- :		: :	Pre- :	:	For	: For
	:Total:	narvest:	Harvest	Harvest:	cane	: seed		
	: Hours	Hours	Hours	Hours	Hours	Hours	Tons	Tons
	:		•	:			}	
Florida	: 315.0	137.0	178.0	: 290.0	137.0	153.0 :	31.2	32.8
Louisiana	232.0	94.0	138.0	: 200.0	94.0	106.0	16.5	16.6
United States	: 238.0	97,0	141.0	203.0	95.0	108.0	17.6	17.1

1/ Grown for sugar and products. Some molasses, including blackstrap, is obtained from the cane that is ground for sugar.

SUGAR CANE SYRUP: Labor requirements per acre 1/

	: ·		Man	hours per	acı	re	: :	1929-38 average
State	:		:	Pre-	;		:	yield
	:	Total	:	harvest	:	Harvest	:	per acre
	:	Hours		Hours		Hours		Gallons
South Carolina	:	230		85		145		99
Georgia	:	270		90		180		142
Florida	:	295		90		205		168
South Atlantic	:	272		89		183		144
	:							
Alabama	:	245		, 85		160		118
Mississippi	:	290		90		200		159
East South Central	:	267		87		180		138
	:			,				
Arkansas	:	2 30		85		145		105
Louisiana	3	380		100		280		248
Texas	:	260		90		170		124
West South Central	:	358		98		260		212
	:							
United States	:	293		91		202		1.60

^{1/} Includes cutting and hauling wood, making up and marketing syrup. Fuel work is included under preharvest, as most all wood is cut and gotten ready before the harvesting begins.

COTTON: Labor requirements per acrè 1/

	: 1 1 1 1	Man hours p	er acre	: 1929-38 : average
State	* 	: Pre-	•	_: average : yield
	: Total	: harvest	: Harvest	: per acre
	: Hours	Hours	Hours	Pounds
	:	*	within anythin conservab	
Missouri	: 137	57	80	337
	:			
Virginia	. 700	67	O.E.	0.00
North Carolina	: 128 : 129	61	. 67	. 269
South Carolina		" 64	65	278
	: 131	.71	60	251
Georgia	: 114	C2	52	218
Florida	100.	63	.37	151
South Atlantic	: 122	, 65	57	2.39
	:			- / -
Kentucky	: 120	60	60	<u>2</u> / 250
Tennessee	: 121	61	60	250
Alabama	: 114	65	49	215
Mississippi	:118	61	E7 .	. 239
East South Central	:11.7	63	54	. 231
	:			
Arkansas	: 112	57	- 55	224
Louisiana	: 117	62.	. 55	225
Oklahoma	: 58	29	29 :	135
Texas	54	28	2.6	149
West South Central	: 69	36	33 · ·	163
	: :			
New Mexico	: 124	46	78	420
Arizona	: 117	35	82	382
Mountain	: 119 -	39	80	306
	:			
California	114	. 26	88	513
	:		,	
United States	91	47	. 44	197
				

I/ These hours include labor for picking or snapping, weighing, hauling seed cotton to gin, and in some instances for marketing lint and seed. Most of the seed is disposed of at the gin. Recent cotton yields are higher than the 10-year average, and harvesting probably is nearer 50 hours per acre.

One average mature picker will pick 150 to 200 pounds of seed cotton per 10-hour day, in a good stand and yield. Cleaning up late in the season the same picker may not average over 75 to 100 pounds of seed cotton. In the High Plains Bollie District, one nan will snap or strip by hand 400 to 600 pounds of seed cotton per day. On the average, it takes 1,200 to 1,500 pounds of picked seed cotton to make one 500-pound bale of lint, and 1,800 to 2,000 pounds of bollie or snapped seed cotton to make one 500-pound bale.

2/ Assumed.

FLAXSEED: Labor requirements per acre 1/

				1000 70
	Man	hours per ac	re	: 1929–38
Ol - t	:	_		_: average
State	:	: Pre- :		: yield
	: Total	: harvest :	Harvest'	: per acre
	: Hours	Hours	Hours	Bushels
	:		:	
Michigan	: 14.0	6.5	7.5	8.8
Wisconsin	: 14.0	6.5	7.5	10.7
East North Central	:_14.0	6.5	7.5	9.9
	:			
	: ,			
Minnesota	: 8.6	3.4	5.2	8.2
Iowa	: 10.0	4.0	6.0	9.1
Missouri	: 12.0	6.5	5.5	4.2
North Dakota	: 6.0	2.6	3.4	. 4.3
South Dakota	: 5.7	2.3	5.4	4.2
Nebraska	: 5.8	2.3	3, 5	5.5
Kansas	: 7.0	3.5	3.5	5.9
West North Central	: 7.9	3.2	4.7	7.1
	:			50°
	:			
Oklahoma	:: 7.0	4.0	3.0	2/ 9.0
Texas	5.0	2.5	2.5	2/11.5
West South Central	5.5	2.9	2.6	10.9
and the second second second	:			
	:			
Montana	: 6.0	2.8	3.2	3.6
Idaho	9.0	4.0	5.0	2/ 8.5
Arizona	: 15.0	7.0	8.0	22.0
Mountain	6.6	3.0	3.6	4.8
	:			•
	:			•
Washington :	9.5	4.0	5.5	2/11.0
Oregon	: 9.0	4.0	5.0	2/ 9.0
California	: 12.5	6.5	6.0	17.3
Pacific	: 12.1	6.2	5.9	15.6
, ·	:			
United States	: 8.0	3.3	4.7	7.5

^{1/} In 1939, 81 percent of the flaxseed acreage in California was irrigated. Iabor for baling straw is not included.

^{2/ 1939} yield, which seemed to be a good year in several States.

HEIP: Labor requirements per acre 1/

4,1				C. C. C. Carrellon
;	Man he	ours per ac	re <u>2</u> /	: Average
State	:	Pre- :		: yield
	: Total :	harvest:	Harvest	: per acre
	:		N. M. L	Pounds
	: Hours	Hours	Hours	fiber 3/
	* '	· _		
<u>Wisconsin</u>	22	7	15	900

1/ Harvesting data from mimeograph report, "Hemp in Corn Belt Farming." George T. Schaefer, BAE, January 1943. States in which farmers are being asked to produce hemp are: Wisconsin, Minnesota, Illinois, Iowa, Indiana, and Kentucky.

2/ These requirements assume that the retted straw is picked up and tied by machine. If this operation is done by hand about 9 more harvest hours will be required, making the total hours per acre 31, and the harvest hours 24.

3/ A normal yield is 900 pounds of fiber, or 2 to 3 tons of retted straw. In 1941 and 1942, yields of 1,100 to 1,200 pounds of fiber per acre were common. Usually about 60 to 70 percent of the fiber is high-quality long fiber, called "line", and the remainder is short fiber, called "tow".

PEAMUTS: Labor requirements per acre 1/

**;	ele ran East (1967)		منسروكات والأحوارين		
		Man hours	s per acre		: 1929-38
	Т	Inversed of	for muta	:Harvested	: average
State	· r	Marvested .	ror naris	for hay 2/	: yield of
		: Pre-	.:	*	: nuts
	Total	: harvest	: Harvest	: Harvest	; per acre
	Hours	Hours	Hours	: Hours	Pounds
			-	4	
Virginia	74	38	36	22	1,026
North Carolina :	77	40	37	. 21	1,048
South Carolina	68	30	58	: 20	680
Georgia	6.3	25	38	: 20	665
Florida	70	34	36	: 20	578
South Atlantic	68	31	37	: 21	746
				: ,1	
Tennessee	76	38	38	20	692
Alabama	69	36	33	· 1 8	648
Mississippi	70	33	37	18	530
East South Central	70	3 G	34	18	640
*	l ā	an in	33 1		
Arkansas	54	28	26	19	498
Louisiana	56	30	26	19	496
Oklahoma	: 50	26	24	18	470
Texas	44	24	20	15	464
West South Central	46	25	21	16 .	472
United States	63	30	33	19	677

1/ Commercial producing areas. The hours for baling peanut hay are not included. These average from 1 to 2 hours per acre. See page 22 for data on baling hay.

2/ Pulled or dug and put up for hay without threshing.

- 119 PEPPERMINT FOR OIL: Labor requirements per acre 1/

		an hours per ac	ere **	: 1929–38
State	Total	: Preharvest :	Harvest	: average : yield : per acre
	Hours	Hours	Hours	Lbs. of oil
Ohio	52.0	39.0	13.0	× 19.8
Indiana	51.0	39.0	12.0	19.1
Michigan	58.0	42.0	16.0	27.1
East North Central	55.0	41.0	14.0	24.0
Washington	65.0	45 .0	20,0	37 . 7
Oregon	65.0	45.0	20.0	35,6
California	70.0	45.0	25.0	45.0
Pacific	66.0	45.0	21.0	37.8
United States	57.0	41.0	16.0	25.8

^{1/} Harvested and delivered to distillery. Some large growers have their own distilling plants and the hours shown probably are high enough to include distilling for such operators.

BEANS, DRY EDIBLE: Labor requirements per acre 1/

prime a second of					
	Mar	hours pe	r acre	: 1330-39 : average	:Percentage : of
State	:	: Pre- :		: yield	: acreage
e ee komo oo	: Total.	:harvest:	Harvest		:irrigated
The second secon	:	:		: acre	: 1939
	: Hours	Hours	Hours	Pounds	Percent
	:			·	10100110
Maine .	3 5	20	15	³ 872	
Vermont	: 30	20	10	611	in taktini i
New England	34	20	14	800	
	:				. 3
New-York	: 27	15	12	764	
Michigan	25	13	12	769	
Wisconsin	: 21 -	13	1.8	390	• •
East North Central	25	13	12	766	
	:				
Minnesota	: 20	13	7	325	
Nebraska	: 32	20	12	77 8	96
Kansas	:20	13	.7	2/ 375	
West North Central	: 30	19	11	599	
	:				
Montana	: 40	27	13	1,133	99
Idaho	35	- 21	14	1,301	78
Wyoming	3 5	23	12	1,056	90
Colorado	: 20	13 -	· 7	351	38
	: 16	9	7	, 312	9
Arizona	: 20	. 11	9 _	468	23
Utah	25	15	<u> </u>	3/ 600	55
Mountain	23	14	9	585	
77.5	:	**	7	7/7 000	70
Washington	25	12		3/1,200	38
Oregon	25.	15 :	10	- 673	43
California	: 30	18	12	1,209	<u>62</u>
Pacific	30	18	12	1,206	
United States	: : 25	15	10	780	
OTITOCA DUALOCE	· ~U	<u>.i.</u> U	70	700	

l/ Commercial producing areas. Includes, besides the ordinary edible beans, the blackeye of California and beans grown for seed. From 1.5 to 1 hour of man labor are usually required to harvest, thresh and haul 100 pounds of dry beans when the yield is 800 or more pounds per acre; when the yield is 300 to 300 pounds per acre, from 2 to 1.5 nan hours per 100 pounds are usually required.

^{2/} Short-time average.

^{3/ 1941.}

BROOMCORN: Labor requirements per acre 1/

	Man hours per acre					19	929-38
State	:	:		:		a	verage
	:	:	Pre-	:		: ;	yield
	: Total	:	harvest	:	Harvest	pe	er acre
·	: Hours		Hours		Hours	3	Pounds
Illinois	36.0		8,0		28.0		492
Kansas	20.0		4.0		16.0		194
Oklahoma	30.0		10.0		20.0		2 35
Texas	30.0		8.5		21.5		296
West South Central	30.0		9.7		20.3		249
	:						•
Colorado	: 20.0		4.0		16.0		189
New Mexico	25.0		5.0		20.0		2 32
Mountain	22.5		4.5		18.0		211
United States	27.0		7.0	<i></i>	20.0		256

^{1/} Commercial producing areas. Includes production, harvesting, and hauling baled brush to market. Colorado and New Mexico production is practically all grown on non-irrigated land.

HOPS: Labor requirements per acre 1/

State	Man l	nours per	acre	: 1929-38 : average
	Total :	Pre- harvest	: Harvest	: yield : per acre
	Hours	Hours	Hours	Pounds
Washington	450	125	325	1,758
Oregon	425	125	300	953
California	440	140	300	1,583
United States	± 432	128	304	1,184

^{1/} Principal commercial areas. Time required to harvest hops depends on the yield and whether the picking is done by hand or with machines. About 670 hours are required to pick 8,000 pounds of green hops by hand, compared to 100 hours with a machine.

PEAS, DRY FIELD: Labor requirements per acre 1/

	1.5		· ·	
,	Mar	hours per ac	ere	: 1929-38 : average
State		: Pre- :		: yield
	Total	: harvest :	Harvest	: per acre
v ·	Hours	Hours	Hours	Bushels
	1 (
Michigan	: 14.0	6.5	: 7.5	10.6
Wisconsin	14.5	6.5	. 8.0	12.3
East North Central	14.2	6.5	- 7.7	11.5
1, "	. *			
Montana	6.7	3.2	3.5	16.1
Idaho	6.5	3,0	: 3.5	19.0
Colorado	6.0	3,0	3.0	9.0
Mountain	6.4	3. 0	3,4	15.8
Washington	6.5	3.0	3.5	18.0
Oregon	6,5	3,0	3.5	17.2
Pacific	6.5	3.0.	3,5	18.0
	}			
United States	7,0	3.2	3.8	16.0

^{1/} Commercial producing areas. Includes dry edible and seed peas grown commercially in material quantities. Cowpeas and Austrian winter peas are not included.
2/ Short-time average.

POPCORN: Labor requirements per acre 1/

				: 1939	
	. Man	hours per	acre	: 1959 : yield	
C+o+o			7020		
State	. თ	Pre- :	771	: per	
		harvest:	Harvest	: acre	
	: <u>Hours</u>	Hours	Hours	<u>Pounds</u>	
;	:				
Ohio A Line	26	14	12	1,950	ngam.
Indiana -	: 24	12	12	1,925	
Illinois	22	11	11	1,960	
Michigan	: 27 .	15	12	1,540	
East North Central	: 24	13	11	1,886	
	:				
Iowa	: 20	10	10	1,560	
Nebraska .	: 16	8.	8	720	
Kansas	: 15	8	7	490	
West North Central	19	10	. 19	1,373	
* * * * * * * * * * * * * * * * * * * *	:			•	
Kentucky	: 34	20	14	1,000	
,	:				
California	30	. 14	· 16	1,300	
•	•				
United States	22	11	11	1,574	
30000			nd-pite	2-3-07-2	

^{1/} Commercial producing areas. Ear corn of 70 pounds to bushel.

TOBACCO: Labor requirements per acre, by class 1/

	Ma	m hours per a	acre	: 1930-39 : average
State		: Pre- :	······································	: yield
	Total	: harvest:	Harvest	: per acre
`	Hours	Hours	Hours	Pounds
	;	,		
	3	AIR-CURED (LIGHT)	et.
Maryland	290	150	140	723
Virginia	340	150	190	1,027
West Virginia	300	190	110	677
North Carolina	330	170	160	862
Kentucky	300	148	152	788
Tennessee	310	150	160	867
Alabama	32.5	180	145	2/ 650
Ohio	330	160	170	819
Indiana Missouri	325	160	165	80 1 893
Kansas	340 330	160 160	180 1 7 0	2/ 834
Total air-cured (light)	304	150	154	802
100al all-cured (light)	004	130	104	002
*		AIR-CURED (D.	ARK)	61
Virginia	300	150	150	752
Kentucky	300	140	160	827
Tennessee,	300	140	160	802
Indiana	310	150	160	836
Total air-cured (dark)	300	141	159	820
· •	}	:		
	9.	FIUE-CURE	n	
Virginia	420	170	250	692
North Carolina	455	170	285	810
South Carolina	470	17 5	295	836
Georgia	465	175	290	828
Florida	450	175	275	786
Alabama	425	175	250	700
Total flue-cured	454	171	283	. 802
*)			
	70.0	FIRE-CURE		mor.
Virginia Kentucky	320	1 55 1 40	165	765
Tennessee	325 315	140 140	185 1 7 5	776 826
Total fire-cured	320	143	177	794
tood ities out or	000	T,TO	111	104

⁻ Continued -

TOBACCO: Labor requirements per acre, by class 1/- Continued

The second secon				
The second secon	· · · · Man h	ours per ac	ro	1930-39
* **	· IVICATI P.	outo, por la c		average
State	:	- Pre- :		: yield
	: Total :	harvest:	Harvest :	
	: :Hours	Hours	Hours	Pounds
	:		1 9	
	6 v v	CIGAR BIN	MER.	
Massachusetts	340	. 110	2 30	1,543
Connecticut	340	110	230	1,543
New York	290	100	190	1,258
Pennsylvania (1)	: 310 :	100	210	1,392
Wisconsin	290	: 90	200	
Minnesota		•		1,340
	260	90	170	1,125
Total cigar binder	309	. 98	211	1,394
	•			
	•	: . CIGAR VIRA	PPER	
Massachusetts	500	275	225	1,000
Connecticut	500	275	225	979
•				•
Georgia	: 600	32.5	275	1,004
Florida	: 600	32.5	275	978
Total cigar wrapper	<u>. 529</u>	290	2 39	983
	•			
		CTCAD TATE	TEIT	4 1 2
Donnarimonia	; 270	CIGAR FII		7 040
Penns ylvania	: 310	110	200	1,240
Ohio	: 260	110	150	984
Georgia	: 300	150	. 150	992
Florida	310 .	150	160	1,022
Total cigar filler	293 .	111	182	1,133
	:			
		ATT OT SOC	TEVO	9 * 4
Noggoshugatta	. 202	ALL CLASS		
Massachusetts	373	144	. 229	1,432
Connecticut	399	171	228	1,366
New England	392 -	164	228	1,383
New York	290	100	190	1,258
Pennsylvania	: 250 : 310	110	200	1,241
Middle Atlantic	309 .	109	200	1,242
MILITALE AUTAMOTE	• 303 .	709	200	上・んさん
Ohio	. 294 .	134	160	915
Indiana	324	160	164	806
Wisconsin	290.	90	200	1,339
East North Central	299			
has c Morell Delitrai	. K99	125	174	1,031

TOBACCO: Labor requirements per acre, by class 1/ - Continued

St ate	Ma Total	n hours per : Pre- : harvest :	acre Harvest	: 1930-39 : average : yield : per acre
	Hours	Hours	Hours	Prunds
	HOULD	TIOUT 15	HOULD	1 (anab
			`	
		ALL CI	ASSES	
Minnesota	.260	90	170	1,125
Missouri	340	160	180	893
Kansas	330	1160	170	834
West North Central	332	154	178	916
	:			
No wer Town	290	7.50	7.40	70.7
Maryland Virginia	399	150 166	140 2 3 3	723 · 732 ·
West Virginia	300	190	110	677
North Carolina	454	170	284	811
South Carolina	470	175	295	836
Georgia	465	176	289	831
Florida	457	186	271	847
South Atlantic	444	170	274	801
	:			
Kentucky	302	146	156	792
Tennessee	312	146	166	848
Alabama	392	177	215	680
East South Central	305	146	159	806
United States	402	162	240	832

^{1/} Included in the total hours are those for raising plants, cutting and hauling curing wood, and for curing, preparing, and hauling the crop to market.

^{2/} Short-time average.

BEEF CATTLE: Labor requirements 1/

				\$ 1 ·			4. 7.3	- 4
A Asset Company	:	11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	Man l	mours		: Deef-	:Other :	Beef
	:	:Feeder		: Beef	: Beef	: covs	:cattle:	produc-
	:Beef	:cattle	:Other		:produc-			tion
State	: COWS			e: tion	: tion		:farms :	
75.3	:per	: head			:per cwt.			
		for -		: 2/	: 3/	: 1941		
	:per	: 4	: per	:(live	: (dressed			weight)
	:year				: weight)		· <u>·</u>	
	•		April 1	•	, working	1,000		1,000
	· Hours	Hours	Hours	Hours	Hours	head		pounds
	• 110 01 0	110010	.:	Hours	Hours		Hoad	pouries
Maine	: 50		-25	7.3	12.6	5	91	34,395
N. H.	: 50	- Indiana	25	6.7	11.5		45	17,570
Vermont	: 50	protection of the contract of	25	5.7	9.8	. 2	142	64,505
Mass.	50	-	25	5.5	9.5	ĩ	55	26,090
R. I.	:		25	4.8	8.3		6	3,1 20
Conn.	: 50		25	5.2	9.0	1	49	24,455
New. Eng.	-		25	6.0		10	388	170,135
Men mig.	30		<i>ج</i> ي	0.0	10.3	10	308	110,100
New York	50		25	4 0	8.4		686	354,520
N. J.	50	,		4.9		7		
			25	4.6	7.9	1		31,500
Pa	50	processed.	25	5.8	10.0	12	608	274,505
Mid. At.	: 50		25	5.3	9.1	20	1,350	660,525
Ohio		70	0.5	F 0	0.0	770	٥٣٥	406 700
Ohio	: 50	10	25	5.0	8.6	70	958	486,790
Indiana	50	10	25	4.9	8.4	130		467,410
Illinois	: 50	10	25	5.3	9.1	210	1,725	866,630
Michigan	: 50		25 -	5.5	9.5	30	812	397,545
Wisconsin	<u>50</u>	10	25 25	4.2	7.2	19		778,460
E.N.Cen.	50	10	<u> </u>	4.9	8.4	: 459	5,600	2,996,835
N'i son o c - t o		70	0.5	r 0	2 2 20 1	700		000 105
Minnesota Iowa	: 50 : 50	10 '	25 25	5.2	9.0 9.1	106	1,715	896 ,17 5
	: 50	10	25 °	5.3		484	3,193	1,645,395
Missouri		10		6.6	11.4	476	•	•
N. Dak.	: 25	7.0	12	3 , 3	. 5.7	140		374,905
S. Dak.	: 25	10	12	3.8	6.6	310		492,120
Nebraska	: 25	10	12	4.4	7.6	683		848 , 205
Kansas	: 25	10	12	3.8	. 6.6	542		954,160
W.N.Cen.	: 34	10	19	4.9	8.4	2,741	11,639	6,060,005
D-7-	:		0.5	1 0	70.0	-	7.0	0 455
Delaware	: 50		25	5.9	10.2	1		8,455
Maryland	: 50		25	6.4	11.0	9	125	55,640
Virginia	: 50		25	8.1	14.0	62	454	177,615
W. Va.	: 50		25	8.0	13.8	49		124,020
N. C.	: 50	,	25	8.4	14.5	28		87,225
S. C.	: 40		20	7.0	12.1	23		54,200
Georgia	: 20		12	7.1	12.2	138		116,870
Florida	: 20		10	14.3	24.7	35.3		79,295
So. At.	: 27		19	8.4	14.4	663	2,172	703,320

BEEF CATTLE: Labor requirements 1/- Continued

	1	1250	2			5 6	011	77	/
	\$		n hours		<u> </u>	•	Other:	Beef	
		:Feeder:	the state of the s	: Beef	: Beef		cattle:	produc-	
					1		on :	tion	
State '		•	cattle:		: tien		farms:	in	
	-				.:per cwt.		Jan.1,:	1941	
	:head		head :		: <u>3</u> /	: 1941 :		(live	
	:per	: 4 :		:(live	:(dressed		5/:	weight)	
	:year	:months:	year :	weight)	: weight)	: :	:		
	:					1,000	1,000	1,000	
•	: Hour's	" Hours	Hours	Hours	Hours	head	head-	pounds	
	:				To a No.				
Kentucky	. 50		. 25	7.0	12.1.	87	590	271,950	_
Tennessee ·	: 50		25	7.5	12:9	104	574	261,555	
Alabama	: 30	7, E. T	15	7.5	12.9	137	496	154,180	
Mississippi	: 30		15	7.5	12.9	183	578_	189,860	
E.S.Cen.	: 37	:	20	7.3	12.6	511	2,238		
	:						•		
Arkansas	: 30		1 5	5.9	2.01	137	583	219,095	
Louisiana	·: 20		10	6.9	11.9	324	5 57	174,975	
Oklahoma	: 20		iz	3.7	6.4	460	1,256	-662,295	
Texas	: 15		io	5.0	8.6	2,280	3,366	1,345,480	
W.S.Cen.	: 17		11	4.9	8.4	3,-201	5,762	2,401,845	
	:	-	111111				7.2.		
Montana :	: :15		10	3.9	- 6.7	454	658	343,545	
Idaho	25		iz	4.3	7.4	^{1.} 136	432	199,805	
Wyoming	15	10	10	4.3	7.4	361	398	219,695	
Colorado	15	10	10	3.8	6.6	469	7.36	380,245	
N. Mex.	: 10		1 8	4.0	6.9	- 681	478	268,560	
Arizona	: 10		8	4.3	7.4	441	428	183,440	
Utah	: 15	P	io	3.6	6.2	117	- 232	112,230	
Nevada	: 10	in protection	8	3.7	6.4	160	206	87,265	
Mountain	: 13	10	10	4.0	6.9	2,819	3,568	1,794,785	
							0,000		
Washington	: 25		20	5.2	9.0	89	- 398	195,470	
Oregon	: 25			·~4:7		232	487		
California	• 25		12	4.6	7.9	484	1,152	561,430	
Pacific	25	•	14	4.9	8.5	805	2,037	1,002,500	
*									_
U.S.	: 23	10	18	5.1	8.8	11,229	34.754	16,667,495	
									-

^{1/} Includes direct labor only for feeding, caring for, and disposing of the animals. Does not include labor for growing feed and for repairing barns and equipment.

2/ Total number of hours of man labor on all beef cattle divided by number of pounds of beef produced in 1941.

4/ All cows 2 years old and over, minus cows 2 years old and over kept for milk.

^{3/} Dressed weight assumed to average 58 percent of live weight.

^{5/} All cattle minus all cows 2 years old and over. "Other cattle" include calves, young heifers, and cattle grain fed in feedlot, or "feeder cattle". Figures are not available on the number of feeder cattle, but the number is relatively small and does not materially affect average hours per 100 pounds of beef produced.

	: Hou	rs per	\$ 77		:	:Average	: :		
		iead 🗼 💮	Hours	per -	:	:weight	: Number:	Number	:Number
	Hens .	:Chickens	: :		:	; per	: of :	of	: of
	: and	: raised		100	:	: head	: hens :	chickens	:commer-
		for flock			:Eggs	of farm	: and :	raised	: cial
		:replace-				:chickens		in	:broilers
		ment and				: sold	on		:produced
	tion	:for meat			: in	: 1941	: farms	3/	: in
and the second s	: per	:(6 mos.)				L:(live	:Jan.1,		: 1941
	: year	:	:duced:			: weight			: 4/
	:		***************************************		Num-		Thou-	Thou-	Thou-
	: Hours	Hours	Hours	Hours	ber	Pounds	sands	sands	sands
							to an artist of the same of th		
Maine	1.8	•3	14	6.8	157	4.4	1,881	3,884	500
N. H.	1.8	•3	.15	7.1	144	4.2	1,634	3,218	
Vt.	1.8	•3	14	6.7	153	4.5	825	1,290	
Mass.	1.8	•3	14	~·6 . 8	153	4.4	3,849	7,744	
R.I.	1.8	•3	13	7.0	163	4.3	442	811	
Conn.	1.8	3	16	7.0	138	4.3	2,661	4,307	
New Eng.	1.8	•3	15	6.8	149	4.4	11,292	21,254	
Non Diff.				0.0	110		11,000	N1,001	10,000
New York	1.8	•3	15	7.1	141	4.2	12,856	19,032	4,000
N. J.	1.8	•3	16	7.5	139	4.0	5,997	9,819	
Pa.	1.8	• 3	17	7.0	125	4.3	17,291	29,718	
Mid. At.		•3	16	7.1	-133	4.2	36,144	58,569	
	:						00,211	:	,
Ohio	1.7	•3	17	6.8	121	4.4	19,504	31,691	3,400
Indiana	1.7	•3	17		116	4.3	13,250	29,707	
	1.7	.3	. 20	6.7	102	4.5	19,965	37,452	
Michigan	1.9	• 3	20	6.8	115	4.4	11,573	18,926	
Wisconsin		.3	17	7.3	124	4.1	14,437	21,969	
E.N.Cen.		•3	19	6.8	115	4.4	78,729	139,745	
						designation of the second second			
Minnesota	1.9	•3	20	7.1	113	4.2	19,737	36,938	
Iowa	1.7	•3	21	6.2	- 99	4.8	29,796	54,307	
Missouri :	: 1.7	• 3	19	7.5	106	4.0	20,543	36,444	2,250
N. Dak.	1.7	•3	21	6.5	96	4.6	4,210	8,684	-
S. Dak.	1.7	• 3	21	6.5	94	4.6	7,018	14,591	
Nebraska	1.7	• 3	19	7.5	106	4.0	11,909	28,950	ا سند
Kansas	1.7	3	17	7.9	117	3.8	13,538	27,852	850
W.N.Cen.	1.7	•3	19	7.0	106	4.3	106,751	207,766	3,100
	,			•					
Delaware		3	18	8.3	119	3.6	964		40,000
6	1.7	• 3	18	7.7	112	3.9	3 , 3 09		14,000
0	1.7	.3	19	8.3	106	3.6	8,205		14,000
	1.7	•3	19	7.5	107	4.0	3,899	5,394	
	1.7	• 3	24	8.1	86	3.7	8,349	19,729	
	1.7	•3	26	9.1	78	3.3	3,420	9,172	2,500
Georgia	1.7	•3	26	9.1	78	3.3	6,550	15,594	6,000
Florida	1.7	•3	22	9.4	91	3.2	2,135	4,847	3,500
So. At.	1.7	• 3	22	8.3	94	3.6	36,831	8T,609	90,160

CHICKENS AND ECGS: Labor requirements 1/ - Continued

### production and for meat layer; sold for for meat eggs: 2/ in 1941 farms: 3/ in per (6 mos.); produced produced: 1941 farms: 3/ in 1941; per (6 mos.); produced: 1941; (live Jan.1, 1941; year; duced: weight); weight); 1941; 4/ #### Hours Hours Hours ber Pounds sands sands sands Hours Hours Hours ber Pounds sands sand										
Hens: Chickens: and: per of of of of and raised: loo: head: hens: chickens: commer-pullets: for flock: loo: pounds: Eggs: of farm: and: raised: cial for egg: replace-: dozen: of per chickens: pullets: in broilers: produc-: ment and: of: meat: layer: sold: on: l941: produced: tion: for meat: eggs: 2/: in: l941: farms: 3/: in: per: (6 mos.): produced: weight: live: l941: (live: Jan.l): l941: year: duced: weight: weight: l941: 4/ Num-				\$ TT		S. Nickelan				:
## state 100 1			nead	Hours	per -	\$:weight			
State Stat	~	: Hens	:Chickens			*	: per	: of	: of	: of
State :for egg:replace :dozen: of : per :chickens:pullets: in :broilers :produc-:ment and : of : meat :layer: sold : on : 1941 :produced : tion :for meat : eggs: 2/ : in : 1941 :farms : 3/ : in :per :(6 mos.) : pro-:(live :1941 :(live :Jan.1, : : 1941 : year : : duced:weight): :weight): 1941 : 4/ Num-		and -	: raised	:	: 100	:	: head	: hens	:chickens	s:commer-
State : for egg:replace- :dozen: of : per :chickens:pullets: in :broilers : produce-:ment and : of : meat :layer: sold : on : 1941 : produced : tion :for meat : eggs: 2/ : in : 1941 :farms : 3/ : in : per :(6 mos.) : produced : per :(1 mos.) : produced : per :(6 mos.) : produced : per :(1 mos.) : per :(1 mos.) : per :(1 mos.) : per :(1 mos.) : per :(2 mos.) : produced : per :(2 mos.) : produced : per :(3 mos.) : produced : per :(4 mos.) : produced : per :(4 mos.) : produced : per :(5 mos.) : produced : per :(5 mos.) : produced : per :(5 mos.) : produced : per :(6 mos.) : per :(1 mo		pullets	for flock	: 100 :	pounds	:Eggs	of far	m: and	: raised	: cial
tion for meat eggs 2/ in 1941 farms 3/ in per (6 mos.) pro-: (live 1941 (live Jan.1, 1941 4/ year duced weight weight 1941 4/						: per	:chicken	s:pullets	: in	:broilers
per (6 mos.) pro-:(live :1941 :(live Jan.1, 1941 year duced:weight): weight): 1941		:produc-	ment and	: of :	meat	:layer	s: sold	: on	: 1941	:produced
per (6 mos.) pro-: (live 1941 (live Jan.1, 1941 4/ 2 2 2 2 2 2 2 2 2		: tion	:for meat	: eggs	2/	: in	: 1941	:farms	: 3/	: in
Year		: per					:(live	:Jan.l,		: 1941
Hours Hours Hours Hours ber Pounds sands sands Kentucky 1.7 .3 21 7.7 95 3.9 9,429 22,198 1,000 Tennessee 1.7 .3 23 7.3 89 4.1 9,104 15,726 1,800 Alabama 1.7 .3 24 8.3 85 3.6 6,282 13,189 — Miss. 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen. 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	*	: year	:						:	: 4/
Hours Hours Hours Hours ber Pounds sands sands Kentucky 1.7 .3 21 7.7 95 3.9 9,429 22,198 1,000 Tennessee 1.7 .3 23 7.3 89 4.1 9,104 15,726 1,800 Alabama 1.7 .3 24 8.3 85 3.6 6,282 13,189 — Miss. 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen. 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	=	:				Min		Thou	Thou→	Thou
Kentucky: 1.7 .3 21 7.7 95 3.9 9,429 22,198 1,000 Tennessee: 1.7 .3 23 7.3 89 4.1 9,104 15,726 1,800 Alabama: 1.7 .3 24 8.3 85 3.6 6,282 13,189 — Miss.: 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen.: 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	2-	: Hours	Hours	Hours	Hours		Pounds			
Tennessee: 1.7 .3 23 7.3 89 4.1 9,104 15,726 1,800 Alabama: 1.7 .3 24 8.3 85 3.6 6,282 13,189 — Miss.: 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen.: 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985		. 110 41 0	Hourb	110415	110410	001	1 oanab	Danas	Danie	Darias
Tennessee: 1.7 .3 23 7.3 89 4.1 9,104 15,726 1,800 Alabama: 1.7 .3 24 8.3 85 3.6 6,282 13,189 — Miss.: 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen.: 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	Kentucky	: 1.7	•3	21	7.7	95	3.9	9,429	22,198	1,000
Alabama : 1.7	Tennessee	: 1.7	•3	23	7.3	89				1,800
Miss. : 1.7 .3 28 8.8 73 3.4 6,390 14,165 1,185 E.S.Cen. : 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	Alabama	: 1.7		24	8.3	85	3.6			
E.S.Cen.: 1.7 .3 24 7.9 87 3.8 31,205 65,278 3,985	Miss.	: 1.7		28		7.3				1,185
	E.S.Cen.									
Arkansas • 1:7 3 24 8 6 85 3 5 6 989 15 578 13 000	و .	:							:	^
111 00 Vet 0.0 00 0.0 0.0 1.00 10.00 10.00 10.000	Arkansas	: 1:7	•3	24	8.6	85	3. 5	6,989	15,578	13,000
Lauisiana: 1.7 .3 28 8.1 72 3.7 4,187 9,616 700	Lauisiana	: 1.7		28		72				700
Oklahoma: 1.5 .3 17 7.9 108 3.8 10,241 19,833 2,000	Oklahoma	: 1.5	•3	17	7.9	-108				2,000
Texas : 1.5 .3 18 8.3 100 3.6 24,238 40,759 7,000	Texas	: 1.5	3	18	8.3	100	3.6		40,759	7,000
W.S.Cen.: 1.6 .3 20 8.3 97 3.6 45,655 85,786 22,700	W.S.Cen.	: 1.6	• 3	20	8.3	97	3.6	45,655	85,786	22,700
		:	•				•			
Montana : 1.7 .3 19 7.5 107 4.0 1,967 3,905	Montana	: 1.7	•3	19	7.5	107	4.0	1,967	3,905	****
Idaho : 1.8 .3 20 7.7 110 3.9 .2,230 4,303	Idaho	: 1.8	•3	20	7.7	110	3.9	2,230	4,303	
Wyoming: 1.8 .3 20 7.9 106 3.8 746 1,578 —	Wyoming	: 1.8	•3	20	7.9	106	3,8			
Colorado: 1.8 .3 20 7.7 107 3.9 3,059 5,999 —	Colorado	: 1.8	• 3	20	7.7	107	3,9	3,059	5,999	
N. Mex. : 1.8 .3 22 7.7 100 3.9 1,079 1,297 -	N. Mex.	: 1.8	•3	22	7.7	100	3.9	1,079	1,297	-
Arizona : 1.8 .3 19 9.7 113 3.1 547 918 450	Arizona	: 1.8	•3	19	9.7	113	3.1	547	918	450
Utah : 1.8 .3 17 10.0 129 3.0 2,170 2,610 -	Utah	: 1.8	• 3	17	10.0	129	3.0	2,170	2,610	
Nevada : 1.8 .3 17 10.0 129 3.0 240 416 -	Nevada	:_1.8	3	17	10.0	129	3.0	240	416	
Mountain: 1.8 .3 20 8.1 111 3.7 12,038 21,026 450	Mountain	1.8	.3	20	8.1	1.11	3.7	12,038	21,026	450
		;								
Washington: 1.8 .3 15 9.1 143 3.3 6,046 8,342 800					9.1	143	3.3	6,046	8,342	
Oregon: 1.8 .3 .16 7.7 136 3.9 3,228 4,875 350	_	: 1.8						3,228		
Calif. : 1.6 .3 15 10.4 127 2.9 13,453 22,580 7,000	Calif.			15	10.4	127				7,000
Pacific: 1.7 .3 15 9.7 133 3.1 22,727 35,797 8,150	Pacific	:_1.7	•3	1 5	9.7	133	3.1	22,727	35,797	8,150
		:								
U. S. : 1.7 .3 19 7.3 110 4.0 381,372 716,830 163,295	U. S.	: 1.7	•3	19	7.3	110	4.0	381,372	716,830	163,295

I/ Includes direct labor only for feeding poultry, and caring for and disposing of chickens and eggs. Does not include labor for growing feed and repairing buildings and equipment.

2/ Dressed weight assumed to average 70 percent of live weight.

^{3/} Does not include young chickens lost. "Chickens raised" includes chickens sold, used in household, inventory changes, and those lost during the year that were on hand January 1.

^{4/} Commercial broilers includes all young chickens of heavy breeds 2 to 4 pounds live weight, under 18 weeks old, raised for meat and not as a by-product in the production of pullets for egg production. Generally considered to require .25 hour to produce a broiler.

DAIRY COMS - MILK: Labor requirements 1/

	Man	hours	:	:	:Average:	Cows and	
•	requ	ired	: Milk	:	:number :	heifers	
the state of the s	:	Per 100	:produced	:	:of. milk:	2 years	ye
State	Per :	pounds	:per cow	: Milk	:cows on:	and over	
	: head :			:production	n: farms :	on farms	
The State of the S	per :	produced		: in 1941	: during:	Jan.l,	
	year :	2./	: : 3/	: 3/	: 1941 :	1941	
V.			11.	Million	Thousand	Thousand	
The state of the s	Hours'	Hours	Pounds	pounds	head	head	
	- · ·			* 2			
Maine	: 165	3.29	5,020	658	-131		
New Hampshire	165	3.29	5,020	361	72	75	
Vermont	160	3.09	5,200	1,466	282	302	
Massachusetts :	165	2.71	6,080	821	135	141	
Rhode Island	165	2.54	6,500	136	., 21	22	
Connecticut	165	2.75	6,000	708	118	128	_
New England	163	2,98	5,468 -	4,150	759	802	_
	·-		•				-
New York	160	2,71	5,910	7,949	1,345	1,428	
New Jersey	165	2.48	6,650	1,004	151	150	
Pennsylvania	150	2.72	5,520	4,869	882	879	
Middle Atlantic	157	2.70	5,812	13,822	2,378	2,457	
MICCIE FULCTION	101	N = 10	ب مدنون	ب مما ولا ت	. 2,010	~, ±01	
				and the second			
Ohio	140	2.97	4,720	4,838	1,025	1,042	
Indiana	140	3.10	4,520	3,435	760	769	
Illinois	150	2,98	5,040	5,453	1,082	1,122	
Michigan ':	150	2.74	5,480	5,124	935	969	
Wisconsin	150	2.45	6,110	13,625	,2,230	2,289	
E. N. Central	14.7 -	2.73	~ 5 , 384.	32,475	.6,032	6,191	
		,	-				ng-tu-e
200		,			- 005	B 850	
Minnesota	145	2.74	5,300	8,824	1,665	1,756	- Citt
Iowa	140	2.87	4,880	6,920	1,418	1,484	
Missouri	130	3, 39	3,830	3,631	948	963	
North Dakota	130	2.91	4,470	2,262	. 506	562	
South Dakota		3.39	3,830	1,827	. 477	519	
Nebraska :		3.14	4,460	2,752	617	626	
Kansas :	140	3.25	4,310	3,172	736	749	
W. N. Central	138	2,99	4,616	29,388	6,307	6,659	
	* 6				-		
Delaware	150	3.30	4,540	154	34	36	
Maryland	7.50	3,09		960	198	204	
Virginia	140	3.65	3,840	1,590	414	425	
West Virginia		3.98	3,520	803	228	2 36	
North Carolina		3.51.	3,990	1,381	346	348	
South Carolina		3.61	3,600	569	158	170	
Georgia		3.86	3, 240	1,076.	332	362	
Florida	120	3,64		343	104	120	
South Atlantic :	136	3.59	3,791	6,876	1,814	1,901	

DAIRY COWS - MILK: Labor requirements 1/ - Continued

	: Man h	ours	:	;	:Average	: Cows and
	: requi		: Milk	:	_	heifers
			produced	· ·	of milk	
State		pounds	:per cow		cows on	_
	: head :			:production		on farms
	: per :		d:in 1941			Jan. 1,
	: year :	. ,	: 3/	: 3/	: 1941	1941
,	:			Million		Thousand
	: Hours	Hours	Pounds	pounds	head	head
	:		Section Control Control	***************************************		
Kentucky	: 130	3.53	3,680	1,995	542	566
Tennessee "	: 130	3,70	3,510	1,941	553	58 1
Alabama	: 125	3,83	3,260	1,219	374	401
Mississippi	:_11.0	4,23	2,600	1,261	485	525
E. S. Central	: 124	3 . 78	3,284	6,416	1,954	2,073
	:					
	:					
Arkansas	: 120	3 ₂ 75	3, 200	1,453	454	486
Louisiana	: 100	4.44	2,250	644	286	335
Oklahoma	: 130	3,75	3,470	2,564	7 39	796
Texas	: 120	3.64	3, 300	4,452	1,349	1,444
W. S. Central	:_ 120	3.73	3,221	9,113	2,828	3,061
	:		· -			
7.5	:					
Montana	: 140	2.94	4,760	733	- 154	162
Idaho	: 150	2.52	5,950	1,321	222	232
Wyoming	: 140	3.10	4,520	298	· 66	68
Colorado	: 140	2.89	4,850	1,067	220	237
New Mexico	: 130	3.13	4,150	299	72	79
Arizona	: 145	2.65	5,480	241	.44	47
Utah	: 145	2.47	5,860	580	99	105
Nevada	: 145	2.51	5,770	115	20	21
Mountain	: 142	2.74	5,188	4,654	897	951
	•					
Wo abinat	: 750	0.45	C 750	0.005	77.0	700
Washington	: 150	2.43	6,170	2,085	338	362
Oregon	: 145	2.54	5,710	1,428	250	265
California Pacific	: 155 : 152	2.25	6,880	5,091	740	756 1.383
LGCTTTC	TOK	2.35	6,478	8,604	1,328	, I, 505
United States	140	2.95	4,742	115,498	24,357	25,478

^{1/} Includes direct labor only for feeding, milking, and caring for the cow herd, including calves born, and in caring for and disposing of the milk. Hours for growing the feed and for repairing buildings and equipment are not included. Heifer calves (under 2 years old) are included under other cattle in the "beef cattle" table.

^{2/} Hours required per 100 pounds of milk were obtained by dividing the hours required per head by the pounds of milk (expressed in 100 pounds) produced in 1941.

^{3/} Excludes milk sucked by calves and milk produced by cows not on farms.

GOATS AND MOHAIR: Labor requirements 1/

Stat e	hours		: production : in : 1941 : 2/
	Hours	Thousands	Thousand pounds
Missouri	6	80	192
Texa s	7	3,850	3/ 18,750
New Mexico	7	226	1,130
Arizona	; : 7	212	931
Utah	7	-30	1.71
Mountain	7	463	2,232
Oregon	: : 7	120	504
California	7	26	: 99
Pacific	: : 7	146	603
	* .		
United States	7	4,544	21,777

^{1/} Includes direct labor only for feeding and clipping, caring for the animals, and disposing of the mohair. Does not include labor for growing feed and repairing buildings, fences, and equipment. The hours per head do not apply to milk goats.

^{2/} In States where goats were clipped twice a year, figures include both spring and fall clip.

^{3/} In Texas kids are clipped in fall of year of birth. Figures include both goats and kids clipped.

HOGS: Labor requirements 1/

			per 100	;	
			f pork	:	Pork
State	Company of the Compan	rod	uced	:	production
	Live	:	Dressed	\$.	in 1941
	: weight	:	weight	:	(live weight)
	:				Thousand
	Hours		Hours		pounds
Maine	4.0		5.6		15,080
	4.0		5.6		4,620
	4.0		5,6		7, 650
	4.0		5.6		25,480
	4.0		5.6		2,270
Connecticut	4.0		5.6		6,150
New England	4.0		5.6		61,250
New York	4.0		5.6		65,640
New Jersey	4.0		5.6		23,370
Pennsylvania	4.0		5-,6		179,175
Middle Atlantic	4.0		5.6		268,185
•					* oro 505
Ohio	2.8		3.9		1,050,727
Indiana	2.8		3.9		1,455,404
Illinois	2.8		3.9		1,952,100
Michigan	3.5		4.9		314,094
Wisconsin	3.5		4.9		722,402
East North Central	2,9		4.0		5,494,727
Minnesota	3.5		4.9		1,381,100
Iowa .	2.8		3.9		3,576,418
Missouri	2.8		3.9		1,150,970
North Dakota	3.5		4,9		201,043
South Dakota	2.8		3.9		439,175
Nebraska			3.9	-	653,605
Kansas	2,8		3.9		436,504
West North Central	2.9		4.0		7,838,815
					•
Delaware	4.0		5.6		7,426
Maryland	4.0		5.6		63,610
Virginia	4.0		5.6		191,403
West Virginia	4.0		5.6		62,350
North Carolina	4.0		5.6		230,230
South Carolina	4.0		5.6		112,698
Georgia	3.6		5.0		298,645
Florida	4.0	Ong	5.6		99,625
South Atlantic :	3.9		5.4		1,065,987

HOGS: Labor requirements 1/- Continued

Lcuisiana 4.0 5.6 132,970 Oklahoma 4.0 5.6 291,528 Texas 4.0 5.6 453,973 West South Central 4.0 5.6 1,108,456 Montana 4.0 5.6 60,315 Idaho 4.0 5.6 117,570 Nyoming 4.0 5.6 20,330		.	100 St. 100	
State		a Stem house	100 man 100	The state of the s
State	A Company of the Comp			•
Live Dressed in 1941 weight weight weight weight thousand Thousand Dounds	G1-1-	•	\	
Weight : Weight : (live weight) Thousand Pounds Hours Pounds Pounds	state	The statement is not the statement of th	and the second s	
Hours Hours Pounds		: Live	: Dressed .:	: in 1941
Hours Hours Pounds		: weight	weight :	(live weight)
Hours Hours Pounds		:		Thousand
Kentucky 4.0 5.6 332,640 Tennessee 4.0 5.6 327,394 Alabama 3.6 5.0 183,255 Mississippi 4.0 5.6 148,155 East South Central 5.9 5.4 991,444 Arkansas 4.0 5.6 229,985 Lcuisiana 4.0 5.6 132,970 Oklahoma 4.0 5.6 291,528 Texas 4.0 5.6 291,528 Texas 4.0 5.6 453,973 West South Central 4.0 5.6 60,315 Idaho 4.0 5.6 60,315 Idaho 4.0 5.6 20,330 Colorado 4.0 5.6 20,330 Mew Mexico 4.0 5.6 11,490 Utah 4.0 5.6 29,550 Wevada 4.0 5.6 29,550 Mountain 4.0 5.6 356,335 Washington 4.0 5.6 34,445 California 4.0		: Hours	Hours	-
Tennessee 4.0 5.6 527,394 Alabama 3.6 5.0 183,255 Mississippi 4.0 5.6 148,155 East South Central 3.9 5.4 991,444 Arkansas 4.0 5.6 132,970 Oklahoma 4.0 5.6 29,528 Texas 4.0 5.6 453,973 West South Central 4.0 5.6 1,103,456 Montana 4.0 5.6 6 20,320 Colorado 4.0 5.6 20,320 Colorado 4.0 5.6 93,480 Mew Hexico 4.0 5.6 93,480 Mew Hexico 4.0 5.6 11,490 Utah 4.0 5.6 11,490 Utah 4.0 5.6 29,550 Mountain 4.0 5.6 4,950 Mountain 4.0 5.6 356,335 Washington 4.0 5.6 84,445 California 4.0 5.6 84,445 Pacific 4.0 5.6 131,615 Pacific 4.0 5.6 348,510		Manager and a second se		
Tennessee 4.0 5.6 527,394 Alabama 3.6 5.0 183,255 Mississippi 4.0 5.6 148,155 East South Central 3.9 5.4 991,444 Arkansas 4.0 5.6 132,970 Oklahoma 4.0 5.6 29,528 Texas 4.0 5.6 453,973 West South Central 4.0 5.6 1,103,456 Montana 4.0 5.6 6 20,320 Colorado 4.0 5.6 20,320 Colorado 4.0 5.6 93,480 Mew Hexico 4.0 5.6 93,480 Mew Hexico 4.0 5.6 11,490 Utah 4.0 5.6 11,490 Utah 4.0 5.6 29,550 Mountain 4.0 5.6 4,950 Mountain 4.0 5.6 356,335 Washington 4.0 5.6 84,445 California 4.0 5.6 84,445 Pacific 4.0 5.6 131,615 Pacific 4.0 5.6 348,510	Kontroler	: 40	F C	772 640
Alabama Mississippi 4.0 5.6 148,155 East South Central Arkansas 4.0 5.6 229,985 Lcuisiana 4.0 5.6 132,970 Oklahoma 4.0 5.6 291,528 Texas 4.0 5.6 453,973 West South Central Montana 4.0 5.6 1,108,456 Montana 4.0 5.6 117,570 Nyoming 4.0 5.6 20,330 Colorado 4.0 5.6 20,330 Colorado 4.0 5.6 20,330 Colorado Mew Mexico 4.0 5.6 18,650 Arizona 4.0 5.6 18,650 Arizona 4.0 5.6 29,550 Wevada 4.0 5.6 29,550 Wevada 4.0 5.6 29,550 Wevada 4.0 5.6 356,335 Washington Oregon 4.0 5.6 32,450 Oregon California 4.0 5.6 34,445 California 4.0 5.6 34,510	The state of the s			
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East South Central 3.9 5.4 991,444 Arkansas 4.0 5.6 229,985 Lcuisiana 4.0 5.6 132,970 Oklahoma 4.0 5.6 291,528 Texas 4.0 5.6 453,973 West South Central 4.0 5.6 1,108,456 Montana 4.0 5.6 60,315 Idaho 4.0 5.6 117,570 Nyoming 4.0 5.6 20,520 Colorado 4.0 5.6 93,480 New Mexico 4.0 5.6 18,650 Arizona 4.0 5.6 18,650 Arizona 4.0 5.6 29,550 Uevada 4.0 5.6 4,950 Mountain 4.0 5.6 356,635 Washington 4.0 5.6 32,450 Oregon 4.0 5.6 32,450 California 4.0 5.6 34,445 Pacific 4.0 5.6 131,615 Pacific 5.6 543,510				
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^{1/} Includes direct labor only for feeding, caring for, and disposing of the animals. Does not include labor for growing the feed, and repairing buildings, fences, and equipment. Dressed weight assumed to average 72 percent of live weight.

				,
	: Man hou	rs per hea	d:	:
	: pe:	r year	: Work	:
	:	:	: horses	: 4
State	: Work	7 :	and **	•
	: horses	: Colts	: mules	: Colts
	: and	: 3/	: on farms	: on farms
	: mules		: January 1	
	: 2/	:	: 1941	: 1941
			- Thousand	Thousand
	: Hours	Hours	head	head
	:		in the second	
Maine	: 90	27	3 7	1
New Hampshire	: 90	27	• 14	dening
Vermont	: 90	27	40 ,	_ 2
Massachusetts	: 90	: 27	/, 2 1	and the
Rhode Island	: 90	327	2	ep
Connecticut	: 90	27	18	90 em
New England	: 90	27	132	3
	:			
New York	: 90	27	. 277	14
New Jersey	: 90	27	3 1 :	1
Pennsylvania	:90	27	29 4	1 5
Mid. Atlantic	: 90	27	602	. 30
	:		;	
Ohio	: 70	21	409	44
Indiana	: 70	21	339	42
Illinois	: 70	21.	536	66
Michigan	: 70	21	320	26
Wisconsin	: 60	18	460	45
E. N. Central	: 68	20	2,064	223
Minnesota	· CF		rea :	07
Iowa	: 65	20	571	61
Missouri	: 60	18	676	96
North Dakota	: 80 : 67	24	624 302	109
South Dakota	: 72	% 20 % 22	292	5 7 69
Nebraska		21	en e	
Kansas	: 71 : 62	19	446 371	69 67
W. N. Central	: 68	21	3,282	528
ne he donoral			0,202	020
Delaware	• 90	18	20	2
Maryland	: 90	18	98;	9
Virginia	: 90	18	239	20
West Virginia	90	18	100	10
North Carolina	90	18	367	3. 9
South Carolina	9 0	18	200	. 3
Georgia	90	18	352	5 ,
Florida	90	18 .	55.	i i
So. Atlantic	90	18	1,431	59
	•		T 9 T O T	

- HORSES AND MULES: Labor requirements 1/ - Continued

	: Man hours	per head	*	*
	: per y	rear	: Work	:
	*	1	horses	:
	; Work	:	: and	:
State	: horses	: Colts	: mules	: Colts
	: and	: 3/	: on farms	: on farms
	: mules	:	: January 1	, : January 1,
	: 2/	:	1941	: 1941
1	•		Thousand	Thousand
	: Hours	Hours	head	head
	St. of Contrast of Contrast			
Kentucky	: 80	16	418	48
Tennessee	: 90	18	422	44
Alabama,	: 90	18	353	10
Mississippi	: 85	17	439	19
E. S. Central	: 86	17	1,632	.121
*	•	1		nor I de la Tilpe value I. Her autoria de la Procesión de deserro de Antonio de La Colonia de La Col
Arkan sas	: 77	15	- 398	43
Louisiana	: 79	16	312	21
Oklahoma	: 65	13	422	72
Texas	: 60	- 12	1,049	115
W. S. Central	: 66	13	2,131	25 1
	1	A 2	A COMMITTER OF THE PARTY OF THE	
Montana .	: 54	11	205	52
Idaho	; 75	15	150	25
Wyoming	: 60	12	105	22
Colorado	: 65	1.3	191	35
New Mexico	: 39	8	118	18
Arizona	: 60	12	69	12
Utah	: 75	15	68	15
Nevada	: 50	10	3 1	7
Mountain	60	12	937	186
	:	**************************************		· · · · · · · · · · · · · · · · · · ·
Washington	: 33	7	120	14
Oregon	: 61	12	126	16
California	: 82	16	178	20
Pacific	: 6l	12	424	. 50
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United States	: 73	18	12,635	1,451

^{1/} Includes direct labor only for feeding and caring for the animals. Does not include labor for growing feed and for repairing barns and equipment.

^{2/} Animals 2 years or more of age.

^{3/} Animals under 2 years old.

SHEEP: Labor requirements 1/

Man 100 pounds hours Freduction of lambs hours of sheep per lambs hours of sheep per lambs hours hours ber lambs and lambs hours ber lambs hours ber lambs hours									at of
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State		: Man :	: 100 pounds		:hours: Produ		ion of	• -	
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Read Live Dressed Sund Wool farms Sun. 1, 1941	State	: per :	and	lambs	: 100 :	Sheep ::			
Ser	- 02.00	: head:	7.1770	Dronnod	pounds:	and :	Wool	•	on farms
Year: 2 : 2 : 1941 : 1941 : 3 1941 : 3 1941 :		: per :			of:	lambs :	in	•	Jan. 1,
Hours Hour		: year:		7	:wool :	in :	1941		1941
Maine Hours Hours Hours Hours pounds pounds head head Maine : 6.0 8.7 17.1 52.1 1,415 236 41 New Hampshire : 6.0 9.0 17.6 55.1 300 49 9 Vermont : 6.0 9.0 17.6 55.1 300 49 9 Kassachusetts : 6.0 1.2 22.0 57.1 215 42 21 Rhode Island : 6.0 10.7 21.0 62.5 140 24 5 Connecticut : 6.0 10.7 21.0 62.5 140 24 5 New Fagland : 6.0 6.5 12.7 47.2 14,560 2,002 306 54 New Fagland : 6.0 6.5 12.7 47.2 14,560		: :		<u>& </u>	: 2/ :	1941 :		1341	3/
Maine		9	1			Thousand	Thousand	Thousand	Thousand
Maine		:Hours	Hours	Hours	Hours	pounds	pounds	head	head
New Hampshire : 6.0 9.0 17.6 55.1 300 49 9 — Vermont : 6.0 9.6 18.8 50.8 655 1.24 21 — Rhode Island : 6.0 11.2 22.0 57.1 215 42 8 — Rhode Island : 6.0 4.0 7.8 50.0 150 12 2 — Ocnnecticut : 6.0 10.7 21.0 62.5 140 24 5 — New Sngland : 6.0 3.0 17.6 53.0 2.875 487 86 — New Jersey : 6.0 6.5 12.7 47.2 14.560 2.002 306 54 New Jersey : 6.0 8.7 17.1 44.5 12.335 2.398 356 — Pennsylvania : 6.0 7.5 14.7 45.8 27,120 4.440 669 54 Indiana : 6.0 7.5 <td></td> <td>:</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>;</td>		:		-					;
New Hampshire : 6.0 9.0 17.6 55.1 300 49 9 —— Vermont : 6.0 9.6 18.8 50.8 655 124 21 —— Massachusetts : 6.0 11.2 22.0 57.1 215 42 8 —— Rhode Island : 6.0 4.0 7.8 50.0 150 12 2 —— Ocnocticut : 6.0 10.7 21.0 62.5 140 24 5 —— New York : 6.0 6.5 12.7 47.2 14.560 2,002 306 54 New York : 6.0 6.5 12.7 47.2 14.560 2,002 306 54 New York : 6.0 8.7 17.1 44.5 12.335 2.398 356 —— Pennsylvania : 6.0 8.5 12.7 45.8 27,120 4.440 669 54 Ohio : 6.0 7.5 <td>Maine</td> <td>: 6.0</td> <td>8.7</td> <td>17.1</td> <td>52.1</td> <td>1,415</td> <td>236</td> <td>41</td> <td></td>	Maine	: 6.0	8.7	17.1	52.1	1,415	236	41	
Vermont	New Hampshire	: 6.0						9	`
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Rhode Island									
Connecticut : 6.0 10.7 21.0 62.5 140 24 5 New England : 6.0 9.0 17.6 53.0 2,875 487 86 New York : 6.0 6.5 12.7 47.2 14,560 2,002 306 54 New Jersey : 6.0 9.3 18.2 52.5 225 40 7 Pennsylvania : 6.0 8.7 17.1 44.5 12,335 2,398 356 Mid. Atlantic : 6.0 7.5 14.7 45.8 27,120 4,440 669 54 Ohio : 6.0 7.9 15.5 37.5 74.796 15,706 1,901 375 Indiana : 6.0 4.4 8.6 33.4 46.697 4,920 676 166 Illinois : 6.0 5.4 10.5 39.2 50.115 6,849 850 270 Wisconsin : 6.0									
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Ohio : 6.0 7.9 15.5 37.5 74,796 15,706 1,901 375 Indiana : 6.0 4.5 8.8 42.9 46,697 4,920 676 166 Illinois : 6.0 4.4 8.6 33.4 46,717 6,155 639 275 Michigan : 6.0 5.4 10.5 39.2 50,115 6,849 850 270 Wisconsin : 6.0 5.8 10.4 42.3 22,414 2,797 382 100 E. N. Central : 6.0 5.2 11.4 38.3 240,739 36,427 4,448 1,186 Minnesota : 6.0 4.5 8.8 40.7 78,714 8,769 1,133 335 Iowa : 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8,491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7,8 36.8 52,171 5,665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware : 6.0 5.4 10.6 46.1 110 13 2 Varyland : 6.0 5.5 10.8 53.8 3,330 340 61 Virginia : 6.0 5.2 10.2 64.6 21,687 1,760 379 West Virginia : 6.0 5.8 11.4 64.0 23,978 2,162 461 North Carolina : 6.0 9.0 17.6 69.3 1,723 225 52 South Carolina : 6.0 20.5 40.2 70.0 102 30 7 Georgia : 6.0 14.6 28.6 81.4 391 70 19 Florida : 6.0 22.5 44.1 107.0 347 73 26	_			and the same of th					and any table
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Indiana : 6.0 4.5 8.8 42.9 46.697 4.920 676 166 Illinois : 6.0 4.4 8.6 33.4 46.717 6.155 639 275 Michigan : 6.0 5.4 10.5 39.2 50.115 6.849 850 270 Wisconsin : 6.0 5.3 10.4 42.3 22.414 2.797 382 100 E. N. Central : 6.0 5.8 11.4 38.3 240.739 36.427 4.448 1.186 Minnesota : 6.0 4.5 8.8 40.7 78.714 8.769 1.133 335 Iowa : 6.0 4.3 8.4 39.4 101.452 10.967 1.341 617 Missouri : 6.0 5.1 10.0 43.9 90.997 10.621 1.525 170 North Dakota : 6.0 5.6 11.0 35.5 53.523 8.491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94.618 15.019 1.816 278 Nebraska : 7.0 3.2 6.3 45.8 50.160 3.496 377 565 Kansas : 6.0 4.0 7.8 36.8 52.171 5.665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521.635 63.028 7.781 2.625 Delaware : 6.0 5.4 10.6 46.1 110 13 2 Maryland : 6.0 5.5 10.8 53.8 3.330 340 61 Virginia : 6.0 5.2 10.2 64.6 21.687 1.760 379 West Virginia : 6.0 5.8 11.4 64.0 23.978 2.162 461 North Carolina : 6.0 9.0 17.6 69.3 1.723 225 52 South Carolina : 6.0 9.0 17.6 69.3 1.723 225 52 South Carolina : 6.0 20.5 40.2 70.0 102 30 7 Georgia : 6.0 14.6 28.6 81.4 391 70 19 Florida : 6.0 22.5 44.1 107.0 347 73 26		:				100			
Illinois		: 6.0	7.9		37.5	74,796	15,706		
Michigan : 6.0 5.4 10.5 39.2 50,115 6,849 850 270 Wisconsin : 6.0 5.3 10.4 42.3 22,414 2,797 382 100 E. N. Central : 6.0 5.8 11.4 38.3 240,739 36,427 4,448 1,186 Minnesota : 6.0 4.5 8.8 40.7 78,714 8,769 1,133 335 Iowa : 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8,491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7.8 36.8 52,171 5,665 <		: 6.0	4.5	8.8	42.9	46,697	4,920	676	166
Wisconsin : 6.0 5.3 10.4 42.3 22.414 2,797 382 100 E. N. Central : 6.0 5.8 11.4 38.3 240,739 36,427 4,448 1,186 Minnesota : 6.0 4.5 8.8 40.7 78,714 8,769 1,133 335 Iowa : 6.0 4.3 8.4 39.4 101,452 10.967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8.491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7.8 36.8 52,171 5,665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521,635 63,028 7,7	Illinois	: 6.0	4,4	8.6	33.4	46,717	6,155	639	275
E. N. Central : 6.0 5.8 11.4 38.3 240,739 36,427 4,448 1,186 Minnesota	Michigan	: 6.0	5.4	10.5	39.2	50,115	6,849	850	270
Minnesota 6.0 4.5 8.8 40.7 78,714 8,769 1,133 335 Iowa 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota 6.0 5.6 11.0 35.5 53,523 8.491 983 130 South Dakota 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas 6.0 4.0 7.8 36.8 52,171 5,665 606 530 W. N. Central 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware 6.0 5.4 10.6 46.1 110 13 2 Yaryland 6.0 5.5 10.8 53.8 3,330 340 61 <	Wisconsin	: 6.0	5.3	10,4	42.3	22,414	2,797	382	100
Iowa : 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8,491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7.8 36.8 50,171 5,665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware : 6.0 5.4 10.6 46.1 110 13 2 Maryland : 6.0 5.5 10.8 53.8 3,330 340 61 Virginia : 6.0 5.2 10.2 64.6 21,687 1,760 379 <td>E. N. Central</td> <td>: 6.0</td> <td>5.8.</td> <td>11,4</td> <td>38.3</td> <td>240,739</td> <td>36,427</td> <td>4,448</td> <td>1,186</td>	E. N. Central	: 6.0	5.8.	11,4	38.3	240,739	36,427	4,448	1,186
Iowa : 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8,491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7.8 36.8 50,171 5,665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware : 6.0 5.4 10.6 46.1 110 13 2 Maryland : 6.0 5.5 10.8 53.8 3,330 340 61 Virginia : 6.0 5.2 10.2 64.6 21,687 1,760 379 <td></td> <td>:</td> <td></td> <td></td> <td>Miles di State à l'Alemania recontent si primanen</td> <td>and the second s</td> <td></td> <td></td> <td></td>		:			Miles di State à l'Alemania recontent si primanen	and the second s			
Iowa : 6.0 4.3 8.4 39.4 101,452 10,967 1,341 617 Missouri : 6.0 5.1 10.0 43.9 90,997 10,621 1,525 170 North Dakota : 6.0 5.6 11.0 35.5 53,523 8,491 983 130 South Dakota : 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska : 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas : 6.0 4.0 7.8 36.8 50,171 5,665 606 530 W. N. Central : 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware : 6.0 5.4 10.6 46.1 110 13 2 Maryland : 6.0 5.5 10.8 53.8 3,330 340 61 Virginia : 6.0 5.2 10.2 64.6 21,687 1,760 379 <td>Minnesota</td> <td>: 6.0</td> <td>4.5</td> <td>8.8</td> <td>40.7</td> <td>78,714</td> <td>8.769</td> <td>1,133</td> <td>335</td>	Minnesota	: 6.0	4.5	8.8	40.7	78,714	8.769	1,133	335
Missouri						•			
North Dakota : 6.0	Missouri								
South Dakota 7.0 6.9 13.5 43.2 94,618 15,019 1,816 278 Nebraska 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas 6.0 4.0 7.8 36.8 52,171 5,665 606 530 W. N. Central 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware 6.0 5.4 10.6 46.1 110 13 2 Maryland 6.0 5.5 10.8 53.8 3,330 340 61 Virginia 6.0 5.2 10.2 64.6 21,687 1,760 379 West Virginia 6.0 5.8 11.4 64.0 23,978 2,162 461 North Carolina 6.0 9.0 17.6 69.3 1,723 225 52 South Carolina 6.0 20.5 40.2 70.0 102 30 7 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></tr<>							-		
Nebraska 7.0 3.2 6.3 45.8 50,160 3,496 377 565 Kansas 6.0 4.0 7.8 36.8 50,171 5,665 606 530 W. N. Central 6.2 4.9 9.6 40.9 521,635 63,028 7,781 2,625 Delaware 6.0 5.4 10.6 46.1 110 13 2 Maryland 6.0 5.5 10.8 53.8 3,330 340 61 Virginia 6.0 5.2 10.2 64.6 21,687 1,760 379 West Virginia 6.0 5.8 11.4 64.0 23,978 2,162 461 North Carolina 6.0 9.5 40.2 70.0 102 30 7 Georgia 6.0 14.6 28.6 81.4 391 70 19 Florida 6.0 22.5 44.1 107.0 347 73 26 <td>au 80</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	au 80								
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Varyland 6.0 5.5 10.8 53.8 3,330 340 61 Virginia 6.0 5.2 10.2 64.6 21,687 1,760 379 West Virginia 6.0 5.8 11.4 64.0 23,978 2,162 461 North Carolina 6.0 9.0 17.6 69.3 1,723 225 52 South Carolina 6.0 20.5 40.2 70.0 102 30 7 Georgia 6.0 14.6 28.6 81.4 391 70 19 Florida 6.0 22.5 44.1 107.0 347 73 26	Doloveno		= 'A	10.0	16.3	220			
Virginia : 6.0 5.2 10.2 64.6 21,687 1,760 379 — West Virginia : 6.0 5.8 11.4 64.0 23,978 2,162 461 — North Carolina : 6.0 9.0 17.6 69.3 1,723 225 52 — South Carolina : 6.0 20.5 40.2 70.0 102 30 7 — Georgia : 6.0 14.6 28.6 81.4 391 70 19 — Florida : 6.0 22.5 44.1 107.0 -347 73 26 —									
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Florida : 6.0 22.5 44.1 107.0 347 73 26	,								
The second secon									
So. Atlantic : 6.0 5.8 11.4 64.6 51,668 4,673 1,007									
	So. Atlantic	6.0	5.8	11.4	64.6	51,668	4,673	1,007	

SHEEP: Labor requirements 1/ - Continued

			urs per	: Man :			CH1.	Feeder
	: Man :	100 p	ounds	:hours:	Product	ion of	Sheep	lambs
	:hours:	of s	heep	: per :			and	and
C+ - +	: per :	and	lambs	: 100 :	Sheep:		lambs	sheep
State	: head:	. . :	70	pounds	and:	Wool	on	on farms
	: per :	Live .	Dressed	of :	lambs :	in	farms	Jan. 1,
	: year:	weight.	weight	:wool :	in :	1941	Jan. 1,	1941
	: <u> </u>	<u>2/</u> :	<u>2/</u>	: 2/ :	1941 :		1941	3/
	:				Thousand	Thousand	Thousand	Thousand
	:Hours	Hours	Hours	Hours	pounds	pounds	head	head_
	:			***************************************				
Kentucky	: 6.0	5.0	9.8	57.2	64,394	5,603	1,069	ten una time
Tennessee	: 6.0	5.4	10.6	63.8	22,488	1,890	402	
Alabama	: 6.0	14.2	27.8	88.88	846	135	40	Section 2006
Mississippi	: 6.0	16.6	32.5	104.3	1,160	184	64	ture destina
E. S. Central	: 6.0	5.3	10.4	60.5	88,888	7,812	1,575	turn day field
	:		*****					
Arkansas	: 6.0	8.7	17.1	67.1	3,454	447	100	Same residentially
Louisiana	: 6.0	16.1	31.6	102.4	5,242	826	282	
Oklahoma	: 6.5	6.5	12.7	33.6	17,135	2,890	333	65
Texas	: 6.0	12.3	24.1	36,2	235,945	80,250	9,656	175
W. S. Central	: 6.0	12.0	23.5	37.1	261,776	84,413	10,371	240
	:			-				
Montana	: 7.0	7.4	14.5	38.9	174,566	33,149	3,635	375
Idaho	: 10.0	7.4	14.5	54.4	124,690	16,953		
Wyoming	: 6.5	7.6	14.9	35.0	152,905	33,379	3,548	
Colorado	: 6.3	5.1	10.0	43.1	115,538	13,561	1,717	865
New Mexico	: 6.0	10.1	19.8	37.8	64,521	17,294	2,150	160
Arizona	: 5.5	6.3	12.4	46.0	32,783	4,492		. 15
Utah	: 5.0	6.3	12.4	29.6	95,127	20,106	2,352	153
Nevada	: 5,0	7.2	14.1	32.3	26,492	5,893		30
Mountain	: 6.6	7.1	13.9	38.7	786,622	144,837	16,727	2,141
	:							
Washington	: 6.5	5.3	10.4	33.8	36,997	5,778	595	44
Oregon	: 6.3	6.2	12.2	36.7	82,955	14,058		
California	: 5.5	5.0	9.8	32.9	163,334	24,615		
Pacific	5.9	5.4	10.6	34.2	283,286	44,451	5,140	
30000				010				
United States	6.2	6.7	13.1	39.0	2,264,609	390,568	47,804	6,479

^{1/} Includes labor only for feeding, shearing, care of the flock, including lambs to weaning time, and disposal of products. Does not include labor for growing feed, and for repairing buildings, fences, and equipment.

^{2/} Dressed weight assumed to average 51 percent of live weight. Fifty percent of the total man hours were allocated to the production of meat from sheep and lambs, and 50 percent to wool.

^{3/} Lambs and sheep in the feedlot for 90 to 120 days generally require about 1 hour of man labor per head.

TURKEYS: Labor requirements 1/

	Man hours	Man: hou		:Average :weight	:Number of : turkeys : raised	: Number of : turkeys : on farms
State	per :	Live-	Dressed	: per	in	Jan. l,
	raised:	weight	weight	sold in: 1941	* . 2/	: 1941
	Hours	Hours	Hours	Pounds	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Thousands
Maine	: 3.7	23.1	30.8	16.0	44	10
New Hampshire	: 3.7	23.6	31.5	15.7	65	10
Vermont ·	: 3.7	23.4	31.2	15.8	155	23 ,
Massachusetts	3.7	23.6	31.5	15.7	224	46
Rhode Island	: 3.7	24.0	32.0	15.4	22	5
Connecticut	: 3.7	23.4	31.2	15.8	95	22
New England	3.7	23.6	31.5	15.7	605	116
New York	3.7	23.6	31.5	15.7	420	63
New Jersey	3.7	22.4	30.0	16.6	120	30
Pennsylvania	3.7	22.7	30.2	16.3	927	149.
Mid. Atlantic	3.7	22.8	30.4	16.2	1,467	247
Ohio '	6.0	3 3.7	51.6	15.5	815	118
Indiana	: 6.0	37.7	50.3	15.9	358	35
Illinois	: 6.0	39.5	52.7	15.2	630	110
Michigan	: 6.0	40.3	53.7	14.9	472	84
Wisconsin	: 6.0	- 38.5	51.3	15.6	462	99
E. N. Central	6.0	38.9	51.9	15.4	2,737	496
Minnesota	3.7	23.9	31.9	15.5	3,207	368
Iowa	3.7	22.3	30.4	16,2	1,782	282
Missouri	3.7	23.4	31.2	15.8	1,544	315
North Dakota	3.7	25.0	33.3	14.8	1,453	334
South Dakota	3.7	25.7	34.3	14.4	1,432	243
Nebraska .	3.7	23.6	31.5	15.7	1,317	220
Kansas	: 3.7	24.5	32.7	15.1	1,157	236
W. N. Central	: 3.7	24.0	32.0	15.4	11,892	2,098
Delaware	3.7	23.4	31.2	15.8	121	25
Maryland	3.7	23.7	31.6	15.6	405	77
Virginia	: 5.7	37.3	49.7	15.3	805	161
West Virginia	: 5.7	40.4	53.9	14.1	225	50
North Carolina	: 5.7	38.2	50.9	14.9	239	56
South Carolina	5.7		43.4	15.7	142	62
Georgia	5.7	39.6	52.8	14.4	117	52 .
Florida	5.7	40.7	54.2	14.0	115	50
So. Atlantic	5. 2	34.4	45.9	15.1	2,169	533

TURKEYS: Labor requirements 1/ - Continued

State	: Man : hours : per : head :	Man hours per 100 pounds		Average Weight per head	: turkeys : turkeys : raised : on farms	
	:raised : :(8 mos.): :	Live- weight	Dressed weight	sold in	: 3/	Jan. 1,
	: Hours	Hours	Hours	Pounds	Thousands	Thousands
Kentucky	5.7	37.3	49.7	15.3	.330	88
Tennessee	5.7	33.5	51.3	14.8	213	55
Alabama	: 5.7	33.8	51.7	14.7	142	49
Mississippi	: 5.7	33,3	51.7	14.7	.139	55
E. S. Central	5.7	38.0	50.7	15.0	304	247
A kansas	5.7	39.0	52.0	14.6	131	50
Louisiana	; 5.7	39.0	52.0	14.6	66	36
Oklahoma	3.5	24.0	32.0	14.6	1,275	329
Texas	3.5	23.0	30.7	15.2	3,651	933
W. S. Central	3.6	24.0	32.0	15.0	5,123	1,398
Montana	3.3	21.6	28.8	15,3	· 276	55
Idaho	3.3	21.4	28.5	15.4	248	43
Wyoming	: 3.3	21.7	28.9	15.2	173	53
Color ado	: 3.3	20.4	27.2	16.2	. 846	176
New Mexica	: 3.3	22.3	29.7	14.8	52	23
Arizona Utah	: 3.3	20.1	26.8	16.4	61	17
Nevada	: 3.3 : 3.3	20.1	26.8 26.8	16.4 16.4	357 ° 38	7 8
Mountain	3.3	20.6	27.5	16.0	2,551	456
71. 1 ·		-, -		7		3.50
Washington	3.0	16.0	21.3	18.8	996	176 3.40
Oregon California	3.0	16.5 17.0	22.0 22.7	18.2	1,726 3,527	1,145
Pacific	3.0	16.7	22.3	18.0	6,249	1,661
United States	4.0	25.2	33.6	15.9	33,597	7,252

I/ Includes labor only for feeding, caring for, and disposing of the turkeys.
Does not include labor for growing feed and for repairing buildings and
equipment.

[/] Turkeys generally assumed to dress 70 to 75 percent.

^{3/ &}quot;Turkeys Raised" includes turkeys sold, and used in household, and inventory changes, and those lost during the year that were on hand January 1.